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<110> MYRIAD GENETICS, INC.  
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Bartel, Paul  
Heichman, Karen

<120> COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND DISEASES

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<400> 240

Gln Leu Trp Glu Lys Ala Gln Arg Leu His Leu Pro Pro Val Arg Leu  
1 5 10 15

Ala Glu Leu His  
20

<210> 241  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 241

Lys Tyr Gly Leu Asp Gly Lys Lys Asp Ala Arg Gln Val Thr Ser Asn  
1 5 10 15

Ser Leu Ser Gly  
20

<210> 242  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 242

Glu Lys Val His Glu Tyr Asn Val Leu Leu Glu Thr Leu Ser Arg Thr  
1 5 10 15

Glu Glu Ile His  
20

<210> 243  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 243

Val Ser His Gln Gly Tyr Ser Thr Glu Ala Glu Phe Glu Glu Pro Arg  
1 5 10 15

Val Ile Asp Leu



<210> 244  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 244

Ala His Glu Lys Leu Arg His Ala Glu Ser Val Gly Asp Gly Glu Arg  
 1 5 10 15

Val Ser Arg Ser Arg Glu Lys His Ala Leu Leu Glu Gly Arg Thr Lys  
 20 25 30

Glu Leu Gly Tyr Thr Val Lys Lys His Leu Gln Asp Leu Ser Gly Arg  
 35 40 45

Ile Ser  
 50

<210> 245  
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 <212> PRT  
 <213> Homo sapiens

<400> 245

Ala Arg Gln Val Thr Ser Asn Ser Leu Ser Gly Thr Gln Glu Asp Gly  
 1 5 10 15

Leu Asp Asp Pro Arg Leu Glu Lys Leu Trp His Lys Ala Lys Thr Ser  
 20 25 30

Gly Lys Phe Ser Gly Glu Glu Leu Asp Lys Leu Trp Arg Glu Phe Leu  
 35 40 45

His His  
 50

<210> 246  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 246

Leu Leu Leu Leu Cys Leu Ala Gly Leu Val Phe Val Ser Glu Ala Gly  
 1 5 10 15

Pro Thr Gly Thr  
 20

<210> 247  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 247

Trp Glu Pro Phe Ala Ser Gly Lys Thr Ser Glu Ser Gly Glu Leu His  
1 5 10 15

Gly Leu Thr Thr  
20

<210> 248  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 248

Glu Glu Glu Phe Val Glu Gly Ile Tyr Lys Val Glu Ile Asp Thr Lys  
1 5 10 15

Ser Tyr Trp Lys  
20

<210> 249  
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<212> PRT  
<213> Homo sapiens

<400> 249

Ala Leu Gly Ile Ser Pro Phe His Glu His Ala Glu Val Val Phe Thr  
1 5 10 15

Ala Asn Asp Ser  
20

<210> 250  
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<213> Homo sapiens

<400> 250

Gly Pro Arg Arg Tyr Thr Ile Ala Ala Leu Leu Ser Pro Tyr Ser Tyr  
1 5 10 15

Ser Thr Thr Ala  
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<210> 251  
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<400> 251

Leu Leu Cys Leu Ala Gly Leu Val Phe Val Ser Glu Ala Gly Pro Thr  
1 5 10 15

Gly Thr Gly Glu Ser Lys Cys Pro Leu Met Val Lys Val Leu Asp Ala  
20 25 30

Val Arg Gly Ser Pro Ala Ile Asn Val Ala Val His Val Phe Arg Lys  
35 40 45

Ala Ala  
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<210> 252

<211> 50

<212> PRT

<213> Homo sapiens

<400> 252

Glu Ser Gly Glu Leu His Gly Leu Thr Thr Glu Glu Glu Phe Val Glu  
1 5 10 15

Gly Ile Tyr Lys Val Glu Ile Asp Thr Lys Ser Tyr Trp Lys Ala Leu  
20 25 30

Gly Ile Ser Pro Phe His Glu His Ala Glu Val Val Phe Thr Ala Asn  
35 40 45

Asp Ser  
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<210> 253

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<212> PRT

<213> Homo sapiens

<400> 253

Leu Glu Ser Gly Asp Leu Ser Met Ser Ser Ile Lys Val Asp Gly Ile  
1 5 10 15

Arg Met Ser Phe  
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<210> 254

<211> 20

<212> PRT

<213> Homo sapiens

<400> 254

Gln Asn Leu Leu Ala Lys Ile Cys Phe His His His Phe Ser Val Val  
 1 5 10 15

Glu Arg Val Asp  
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<210> 255  
 <211> 20  
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<400> 255

Ser Cys Ala Ser Met Tyr Ser Arg Ser Ile Gln Gly His His Val Cys  
 1 5 10 15

Leu Leu Val Lys  
 20

<210> 256  
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<400> 256

Lys Gly Glu Asn Ser Val Ser Val Asp Gly Lys Cys Ser Asp Ser Thr  
 1 5 10 15

Leu Leu Ser Asn  
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<210> 257  
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 <212> PRT  
 <213> Homo sapiens

<400> 257

Ser Asp Ser Thr Leu Leu Ser Asn Leu Leu Glu Glu Met Lys Ala Thr  
 1 5 10 15

Leu Ala Lys Cys  
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<210> 258  
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 <212> PRT  
 <213> Homo sapiens

<400> 258

Asn Leu Leu Ala Lys Ile Cys Phe His His His Phe Ser Val Val Glu  
 1 5 10 15

Arg Val Asp Ser Cys Ala Ser Met Tyr Ser Arg Ser Ile Gln Gly His  
20 25 30

His Val Cys Leu Leu Val Lys Lys Gly Glu Asn Ser Val Ser Val Asp  
35 40 45

Gly Lys  
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<210> 259  
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<212> PRT  
<213> Homo sapiens

<400> 259

Trp Asp Asn Phe Gly Ile Trp Asp Asn Arg Ile Asp Glu Pro Ile Leu  
1 5 10 15

Leu Pro Pro Ser  
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<210> 260  
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<213> Homo sapiens

<400> 260

Leu Tyr Phe Ala Val Tyr Asp Gly His Gly Gly Pro Ala Ala Ala Asp  
1 5 10 15

Phe Cys His Thr  
20

<210> 261  
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<212> PRT  
<213> Homo sapiens

<400> 261

Ala Thr Leu Leu Thr Ser Gly Thr Thr Ala Thr Val Ala Leu Leu Arg  
1 5 10 15

Asp Gly Ile Glu  
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<210> 262  
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<212> PRT  
<213> Homo sapiens

<400> 262

Gly Gly Phe Val Ala Trp Asn Ser Leu Gly Gln Pro His Val Asn Gly  
 1 5 10 15

Arg Leu Ala Met  
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<210> 263  
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<400> 263

Asn Phe Met Val Asn Ser Gln Glu Ile Cys Asp Phe Val Asn Gln Cys  
 1 5 10 15

His Asp Pro Asn  
 20

<210> 264  
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 <213> Homo sapiens

<400> 264

Leu Leu Gln Asp Asp Arg Arg Val Thr Pro Thr Cys His Ser Ser Thr  
 1 5 10 15

Ser Glu Pro Arg Cys Ser Arg Phe Asp Pro Asp Gly Ser Gly Ser Pro  
 20 25 30

Ala Thr Trp Asp Asn Phe Gly Ile Trp Asp Asn Arg Ile Asp Glu Pro  
 35 40 45

Ile Leu  
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<210> 265  
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<400> 265

Gly Gln Pro His Val Asn Gly Arg Leu Ala Met Thr Arg Ser Ile Gly  
 1 5 10 15

Asp Leu Asp Leu Lys Thr Ser Gly Val Ile Ala Glu Pro Glu Thr Lys  
 20 25 30

Arg Ile Lys Leu His His Ala Asp Asp Ser Phe Leu Val Leu Thr Thr  
 35 40 45

Asp Gly  
50

<210> 266  
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<213> Homo sapiens

<400> 266

Arg Thr Leu Asp Ser Glu Pro Lys Cys Val Glu Glu Leu Pro Glu Trp  
1 5 10 15

Asn Phe Asp Gly  
20

<210> 267  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 267

Ser Ser Thr Leu Gln Ser Glu Gly Ser Asn Ser Asp Met Tyr Leu Val  
1 5 10 15

Pro Ala Ala Met  
20

<210> 268  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 268

Met Asp Met Val Ser Asn Gln His Pro Trp Phe Gly Met Glu Gln Glu  
1 5 10 15

Tyr Thr Leu Met  
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<210> 269  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 269

Arg Ala Cys Leu Tyr Ala Gly Val Lys Ile Ala Gly Thr Asn Ala Glu  
1 5 10 15

Val Met Pro Ala  
20

<210> 270  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 270

Phe Pro Gly Pro Gln Gly Pro Tyr Tyr Cys Gly Val Gly Ala Asp Arg  
1 5 10 15

Ala Tyr Gly Arg  
20

<210> 271  
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<212> PRT  
<213> Homo sapiens

<400> 271

Leu Gln Ser Glu Gly Ser Asn Ser Asp Met Tyr Leu Val Pro Ala Ala  
1 5 10 15

Met Phe Arg Asp Pro Phe Arg Lys Asp Pro Asn Lys Leu Val Leu Cys  
20 25 30

Glu Val Phe Lys Tyr Asn Arg Arg Pro Ala Glu Thr Asn Leu Arg His  
35 40 45

Thr Cys  
50

<210> 272  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 272

His Pro Trp Phe Gly Met Glu Gln Glu Tyr Thr Leu Met Gly Thr Asp  
1 5 10 15

Gly His Pro Phe Gly Trp Pro Ser Asn Gly Phe Pro Gly Pro Gln Gly  
20 25 30

Pro Tyr Tyr Cys Gly Val Gly Ala Asp Arg Ala Tyr Gly Arg Asp Ile  
35 40 45

Val Glu  
50

<210> 273  
<211> 20



<212> PRT  
<213> Homo sapiens

<400> 273

Thr Thr Thr Pro Gln Gln Asn Lys Met Asp Lys Leu Ile Glu Ile Leu  
1 5 10 15

Asn Ser Met Arg  
20

<210> 274  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 274

Ala Val Ser Asp Arg Ser Phe Ala Phe Thr Ala Ala Lys Leu Cys Asp  
1 5 10 15

Lys Met Ala Leu  
20

<210> 275  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 275

Leu Cys Glu Val Phe Gly Thr Met Arg Ser Ser Thr Gly Glu Pro Phe  
1 5 10 15

Arg Val Leu Val  
20

<210> 276  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 276

Glu Met Met Thr Glu Leu Leu Ala Ser Ala Arg Asp Lys Met Leu Cys  
1 5 10 15

Pro Ser Glu Ser  
20

<210> 277  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 277

Glu Val Ile Glu Leu His Ala Asn Ser Trp Asn Pro Leu Thr Pro Pro  
1 5 10 15

Ile Thr Gln Tyr  
20

<210> 278  
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<212> PRT  
<213> Homo sapiens

<400> 278

Phe Thr Ala Ala Lys Leu Cys Asp Lys Met Ala Leu Phe Met Val Glu  
1 5 10 15

Gly Thr Lys Phe Arg Ser Leu Leu Leu Asn Met Leu Gln Lys Asp Phe  
20 25 30

Thr Val Arg Glu Glu Leu Gln Gln Gln Asp Val Glu Arg Trp Leu Gly  
35 40 45

Phe Ile  
50

<210> 279  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 279

Arg Ser Ser Thr Gly Glu Pro Phe Arg Val Leu Val Cys Pro Ile Tyr  
1 5 10 15

Thr Cys Leu Arg Glu Leu Leu Gln Ser Gln Asp Val Lys Glu Asp Ala  
20 25 30

Val Leu Cys Cys Ser Met Glu Leu Gln Ser Thr Gly Arg Leu Leu Glu  
35 40 45

Glu Gln  
50

<210> 280  
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<212> PRT  
<213> Homo sapiens

<400> 280

Val Arg Met Met Gln Ala Gln Glu Ala Val Ser Arg Ile Lys Met Ala  
1 5 10 15

Gln Lys Leu Ala  
20

<210> 281  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 281

Pro Leu Arg Thr Ile Ser Tyr Ile Ala Asp Ile Gly Asn Ile Val Val  
1 5 10 15

Leu Met Ala Arg  
20

<210> 282  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 282

Ala Gln Ser Ile Gly Gln Ala Phe Ser Val Ala Tyr Gln Glu Phe Leu  
1 5 10 15

Arg Ala Asn Gly  
20

<210> 283  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 283

Lys Gln Lys Gly Glu Ile Leu Gly Val Val Ile Val Glu Ser Gly Trp  
1 5 10 15

Gly Ser Ile Leu  
20

<210> 284  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 284

Thr Cys Gln Ser Ile Ile Lys Gly Leu Lys Asn Gln Ser Arg Val Lys  
1 5 10 15

Leu Asn Ile Val  
20

<210> 285  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 285

Ala Asp Ile Gly Asn Ile Val Val Leu Met Ala Arg Arg Arg Met Pro  
1 5 10 15

Arg Ser Asn Ser Gln Glu Asn Val Glu Ala Ser His Pro Ser Gln Asp  
20 25 30

Gly Lys Arg Gln Tyr Lys Met Ile Cys His Val Phe Glu Ser Glu Asp  
35 40 45

Ala Gln  
50

<210> 286  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 286

Gly Val Val Ile Val Glu Ser Gly Trp Gly Ser Ile Leu Pro Thr Val  
1 5 10 15

Ile Ile Ala Asn Met Met His Gly Gly Pro Ala Glu Lys Ser Gly Lys  
20 25 30

Leu Asn Ile Gly Asp Gln Ile Met Ser Ile Asn Gly Thr Ser Leu Val  
35 40 45

Gly Leu  
50

<210> 287  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 287

Met Ala Phe Ala Asn Leu Arg Lys Val Leu Ile Ser Asp Ser Leu Asp  
1 5 10 15

Pro Cys Cys Arg  
20

<210> 288

<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 288

Gln Asn Leu Ser Lys Glu Glu Leu Ile Ala Glu Leu Gln Asp Cys Glu  
1 5 10 15

Gly Leu Ile Val  
20

<210> 289  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 289

Ala Asp Val Ile Asn Ala Ala Glu Lys Leu Gln Val Val Gly Arg Ala  
1 5 10 15

Gly Thr Gly Val  
20

<210> 290  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 290

Leu Val Met Asn Thr Pro Asn Gly Asn Ser Leu Ser Ala Ala Glu Leu  
1 5 10 15

Thr Cys Gly Met  
20

<210> 291  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 291

Asp Glu Gly Ala Leu Leu Arg Ala Leu Gln Ser Gly Gln Cys Ala Gly  
1 5 10 15

Ala Ala Leu Asp  
20

<210> 292  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 292

Gln Ala Thr Ala Ser Met Lys Asp Gly Lys Trp Glu Arg Lys Lys Phe  
1 5 10 15

Met Gly Thr Glu Leu Asn Gly Lys Thr Leu Gly Ile Leu Gly Leu Gly  
20 25 30

Arg Ile Gly Arg Glu Val Ala Thr Arg Met Gln Ser Phe Gly Met Lys  
35 40 45

Thr Ile  
50

<210> 293

<211> 50

<212> PRT

<213> Homo sapiens

<400> 293

Ser Ala Ser Phe Gly Val Gln Gln Leu Pro Leu Glu Glu Ile Trp Pro  
1 5 10 15

Leu Cys Asp Phe Ile Thr Val His Thr Pro Leu Leu Pro Ser Thr Thr  
20 25 30

Gly Leu Leu Asn Asp Asn Thr Phe Ala Gln Cys Lys Lys Gly Val Arg  
35 40 45

Val Val  
50

<210> 294

<211> 20

<212> PRT

<213> Homo sapiens

<400> 294

Thr Asp Gly Val Lys His Ser Met Asn Pro Phe Cys Glu Ile Ala Val  
1 5 10 15

Glu Glu Ala Val  
20

<210> 295

<211> 20

<212> PRT

<213> Homo sapiens

<400> 295

Val Ile Ala Val Ser Cys Gly Pro Ala Gln Cys Gln Glu Thr Ile Arg  
Page 54

1 5 10 15

Thr Ala Leu Ala  
20

<210> 296  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 296

Leu Leu Gly Lys Gln Ala Ile Asp Asp Asp Cys Asn Gln Thr Gly Gln  
1 5 10 15

Met Thr Ala Gly  
20

<210> 297  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 297

Val Thr Ala Asp Leu Arg Leu Asn Glu Pro Arg Tyr Ala Thr Leu Pro  
1 5 10 15

Asn Ile Met Lys  
20

<210> 298  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 298

Ala Glu Arg Leu Gly Pro Leu Gln Val Ala Arg Val Leu Ala Lys Leu  
1 5 10 15

Ala Glu Lys Glu  
20

<210> 299  
<211> 50  
<212> PRT  
<213> Homo sapiens  
<400> 299

Asp Asp Cys Asn Gln Thr Gly Gln Met Thr Ala Gly Phe Leu Asp Trp  
1 5 10 15

Pro Gln Gly Thr Phe Ala Ser Gln Val Thr Leu Glu Gly Asp Lys Leu  
Page 55

20 25 30

Lys Val Glu Arg Glu Ile Asp Gly Gly Leu Glu Thr Leu Arg Leu Lys  
 35 40 45

Leu Pro  
 50

<210> 300  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 300

Pro Arg Tyr Ala Thr Leu Pro Asn Ile Met Lys Ala Lys Lys Lys Lys  
 1 5 10 15

Ile Glu Val Ile Lys Pro Gly Asp Leu Gly Val Asp Leu Thr Ser Lys  
 20 25 30

Leu Ser Val Ile Ser Val Glu Asp Pro Pro Gln Arg Thr Ala Gly Val  
 35 40 45

Lys Val  
 50

<210> 301  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 301

Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg Leu  
 1 5 10 15

Val Thr Arg Ala Ala Phe Asn Ser  
 20

<210> 302  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 302

Lys Ala Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile  
 1 5 10 15

Phe Gln Glu Arg Asp  
 20



<210> 303  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 303

Ile Ser Ala Pro Ser Ala Asp Ala Pro Met Phe Val Met Gly Val Asn  
1 5 10 15

His Glu Lys Tyr  
20

<210> 304  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 304

Asp Asn Ser Leu Lys Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys  
1 5 10 15

Leu Ala Pro Leu  
20

<210> 305  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 305

Ala Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr  
1 5 10 15

Thr Val His Ala  
20

<210> 306  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 306

Phe Gly Arg Ile Gly Arg Leu Val Thr Arg Ala Ala Phe Asn Ser Gly  
1 5 10 15

Lys Val Asp Ile Val Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr  
20 25 30

Met Val Tyr Met Phe Gln Tyr Asp Ser Thr His Gly Lys Phe His Gly  
35 40 45

Thr Val  
50

<210> 307  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 307

Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg Asp Pro Ser Lys Ile  
1 5 10 15

Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val Glu Ser Thr Gly Val  
20 25 30

Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu Gln Gly Gly Ala Lys  
35 40 45

Arg Val  
50

<210> 308  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 308

Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu Thr  
1 5 10 15

Met Ser Lys Gly  
20

<210> 309  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 309

Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp Ala Tyr Gly Lys Lys  
1 5 10 15

Gly Gln Pro Asp  
20

<210> 310  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 310

Asp Ala Lys Ile Pro Pro Asn Ala Lys Leu Thr Phe Glu Val Glu Leu  
 1 5 10 15

Val Asp Ile Asp  
 20

<210> 311  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 311

Val Ile Arg Gly Trp Asp Glu Ala Leu Leu Thr Met Ser Lys Gly Glu  
 1 5 10 15

Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp Ala Tyr Gly Lys Lys Gly  
 20 25 30

Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala Lys Leu Thr Phe Glu Val  
 35 40 45

Glu Leu  
 50

<210> 312  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 312

Leu Lys Glu Leu Arg Asp His Ala Asp Ser Asn Ile Val Ile Met Leu  
 1 5 10 15

Val Gly Asn Lys  
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<210> 313  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 313

Ser Asp Leu Arg His Leu Arg Ala Val Pro Thr Asp Glu Ala Arg Ala  
 1 5 10 15

Phe Ala Glu Lys  
 20

<210> 314  
 <211> 20  
 <212> PRT

<213> Homo sapiens

<400> 314

Asn Gly Leu Ser Phe Ile Glu Thr Ser Ala Leu Asp Ser Thr Asn Val  
1 5 10 15

Glu Ala Ala Phe  
20

<210> 315

<211> 20

<212> PRT

<213> Homo sapiens

<400> 315

Gln Thr Ile Leu Thr Glu Ile Tyr Arg Ile Val Ser Gln Lys Gln Met  
1 5 10 15

Ser Asp Arg Arg  
20

<210> 316

<211> 20

<212> PRT

<213> Homo sapiens

<400> 316

Glu Asn Asp Met Ser Pro Ser Asn Asn Val Val Pro Ile His Val Pro  
1 5 10 15

Pro Thr Thr Glu  
20

<210> 317

<211> 50

<212> PRT

<213> Homo sapiens

<400> 317

Thr Ile Leu Thr Glu Ile Tyr Arg Ile Val Ser Gln Lys Gln Met Ser  
1 5 10 15

Asp Arg Arg Glu Asn Asp Met Ser Pro Ser Asn Asn Val Val Pro Ile  
20 25 30

His Val Pro Pro Thr Thr Glu Asn Lys Pro Lys Val Gln Cys Cys Gln  
35 40 45

Asn Ile  
50

<210> 318  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 318

Leu Lys Glu Leu Arg Asp His Ala Asp Ser Asn Ile Val Ile Met Leu  
 1 5 10 15

Val Gly Asn Lys Ser Asp Leu Arg His Leu Arg Ala Val Pro Thr Asp  
 20 25 30

Glu Ala Arg Ala Phe Ala Glu Lys Asn Gly Leu Ser Phe Ile Glu Thr  
 35 40 45

Ser Ala  
 50

<210> 319  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 319

Ala Asp Leu Ala Gly Asn Ser Glu Val Ile Leu Pro Val Pro Ala Phe  
 1 5 10 15

Asn Val Ile Asn  
 20

<210> 320  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 320

Ala Met Arg Ile Gly Ala Glu Val Tyr His Asn Leu Lys Asn Val Ile  
 1 5 10 15

Lys Glu Lys Tyr  
 20

<210> 321  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 321

Lys Glu Gly Leu Glu Leu Leu Lys Thr Ala Ile Gly Lys Ala Gly Tyr  
 1 5 10 15

Thr Asp Lys Val  
20

<210> 322  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 322

Val Ile Gly Met Asp Val Ala Ala Ser Glu Phe Phe Arg Ser Gly Lys  
1 5 10 15

Tyr Asp Leu Asp  
20

<210> 323  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 323

Lys Ser Phe Ile Lys Asp Tyr Pro Val Val Ser Ile Glu Asp Pro Phe  
1 5 10 15

Asp Gln Asp Asp  
20

<210> 324  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 324

Trp Gln Lys Phe Thr Ala Ser Ala Gly Ile Gln Val Val Gly Asp Asp  
1 5 10 15

Leu Thr Val Thr Asn Pro Lys Arg Ile Ala Lys Ala Val Asn Glu Lys  
20 25 30

Ser Cys Asn Cys Leu Leu Leu Lys Val Asn Gln Ile Gly Ser Val Thr  
35 40 45

Glu Ser  
50

<210> 325  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 325

Gln Ala Asn Gly Trp Gly Val Met Val Ser His Arg Ser Gly Glu Thr  
1 5 10 15

Glu Asp Thr Phe Ile Ala Asp Leu Val Val Gly Leu Cys Thr Gly Gln  
20 25 30

Ile Lys Thr Gly Ala Pro Cys Arg Ser Glu Arg Leu Ala Lys Tyr Asn  
35 40 45

Gln Leu  
50

<210> 326  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 326

Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys His Glu Asp Gly Asp Ser  
1 5 10 15

Asn Gly Thr Phe  
20

<210> 327  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 327

Asn Gly Thr Phe Phe Val Tyr His Ala Ile Tyr Leu Glu Glu Leu Thr  
1 5 10 15

Ala Val Glu Leu  
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<400> 328

Thr Glu Lys Ile Ala Gln Leu Phe Ser Ile Ser Pro Cys Gln Ile Ser  
1 5 10 15

Gln Ile Tyr Lys  
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<400> 329

Gln Gly Pro Thr Gly Ile His Val Leu Ile Ser Asp Glu Met Ile Gln  
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Asn Phe Gln Glu  
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<400> 330

Glu Ala Cys Phe Ile Leu Asp Thr Met Lys Gln Glu Thr Asn Asp Ser  
1 5 10 15

Tyr His Ile Ile  
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<400> 331

Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys His Glu Asp Gly Asp Ser  
1 5 10 15

Asn Gly Thr Phe Phe Val Tyr His Ala Ile Tyr Leu Glu Glu Leu Thr  
20 25 30

Ala Val Glu Leu Thr Glu Lys Ile Ala Gln Leu Phe Ser Ile Ser Pro  
35 40 45

Cys Gln  
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<400> 332

Cys Gln Ile Ser Gln Ile Tyr Lys Gln Gly Pro Thr Gly Ile His Val  
1 5 10 15

Leu Ile Ser Asp Glu Met Ile Gln Asn Phe Gln Glu Glu Ala Cys Phe  
20 25 30



Ile Leu Asp Thr Met Lys Gln Glu Thr Asn Asp Ser Tyr His Ile Ile  
35 40 45

Leu Lys  
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<400> 333

Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg Leu  
1 5 10 15

Val Thr Arg Ala  
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<400> 334

Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe  
1 5 10 15

Gln Tyr Asp Ser  
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<400> 335

Lys Ala Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile  
1 5 10 15

Phe Gln Glu Arg  
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<400> 336

Ile Ser Ala Pro Ser Ala Asp Ala Pro Met Phe Val Met Gly Val Asn  
1 5 10 15

His Glu Lys Tyr  
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<400> 337

Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser Gly Lys Leu Trp  
1 5 10 15

Arg Asp Gly Arg  
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<400> 338

Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg Asp Pro Ser Lys Ile Lys  
1 5 10 15

Trp Gly Asp Ala Gly Ala Glu Tyr Val Val Glu Ser Thr Gly Val Phe  
20 25 30

Thr Thr Met Glu Lys Ala Gly Ala His Leu Gln Gly Gly Ala Lys Arg  
35 40 45

Val Ile  
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<212> PRT  
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<400> 339

Met Phe Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu Lys  
1 5 10 15

Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu Ala  
20 25 30

Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr Thr  
35 40 45

Val His

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<400> 340

Lys Leu Ser Ile Pro Gln Leu Ser Val Thr Asp Tyr Glu Ile Met Glu  
1 5 10 15

Gln Arg Leu Gly  
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<400> 341

Glu Phe Glu Glu Ile Glu Gly Arg Trp Lys Lys Leu Ser Ser Gln Leu  
1 5 10 15

Val Glu His Cys  
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<400> 342

Ser Glu Ile Leu Lys Lys Gln Leu Lys Gln Cys Arg Leu Leu Val Ser  
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Asp Ile Gln Thr  
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<400> 343

Met Cys Gln Gln Val Tyr Ala Arg Lys Glu Ala Leu Lys Gly Gly Leu  
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Glu Lys Thr Val  
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<400> 344

Lys Arg Ala Lys Glu Glu Ala Gln Gln Lys Glu Ala Lys Val Lys Leu  
1 5 10 15

Leu Thr Glu Ser  
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<400> 345

Val Ala Gln Glu Ala Leu Lys Lys Glu Leu Glu Thr Leu Thr Thr Asn  
1 5 10 15

Tyr Gln Trp Leu Cys Thr Arg Leu Asn Gly Lys Cys Lys Thr Leu Glu  
20 25 30

Glu Val Trp Ala Cys Trp His Glu Leu Leu Ser Tyr Leu Glu Lys Ala  
35 40 45

Asn Lys  
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<400> 346

Ala Asp Phe Val Ala Phe Thr Asn His Phe Lys Gln Val Phe Ser Asp  
1 5 10 15

Val Gln Ala Arg Glu Lys Glu Leu Gln Thr Ile Phe Asp Thr Leu Pro  
20 25 30

Pro Met Arg Tyr Gln Glu Thr Met Ser Ala Ile Arg Thr Trp Val Gln  
35 40 45

Gln Ser  
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<400> 347

Met Lys Gln Ala Leu Ile Ala Ser Ala Arg Arg Leu Pro Gly Val Asn  
1 5 10 15

Met Phe Glu Gln  
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<213> Homo sapiens

<400> 348

Gln Ala Ser Leu Ser Pro Ser Tyr Ile Asp Leu Thr Glu Cys Pro Tyr  
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Met Trp Pro Tyr  
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<400> 349

Asn Gly Asp Asn Ile Glu Val Ala Phe Ser Tyr Ser Ser Val Leu Trp  
1 5 10 15

Pro Trp Ser Gly  
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Glu Gln Thr Ser Thr Val Lys Leu Pro Ile Lys Val Lys Ile Ile Pro  
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Thr Pro Pro Arg  
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<212> PRT

<213> Homo sapiens

<400> 351

Gln Gly His Gly Lys Leu Asp Leu Leu Arg Ala Tyr Gln Ile Leu Asn  
Page 69

1 5 10 15

Ser Tyr Lys Pro  
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<210> 352  
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<400> 352

Ile Asp Leu Thr Glu Cys Pro Tyr Met Trp Pro Tyr Cys Ser Gln Pro  
1 5 10 15

Ile Tyr Tyr Gly Gly Met Pro Thr Val Val Asn Val Thr Ile Leu Asn  
20 25 30

Gly Met Gly Val Thr Gly Arg Ile Val Asp Lys Pro Asp Trp Gln Pro  
35 40 45

Tyr Leu  
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<212> PRT  
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<400> 353

Asn Gly Asp Asn Ile Glu Val Ala Phe Ser Tyr Ser Ser Val Leu Trp  
1 5 10 15

Pro Trp Ser Gly Tyr Leu Ala Ile Ser Ile Ser Val Thr Lys Lys Ala  
20 25 30

Ala Ser Trp Glu Gly Ile Ala Gln Gly His Val Met Ile Thr Val Ala  
35 40 45

Ser Pro  
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<210> 354  
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<400> 354

Ala Asp Asp Leu Thr Asp Pro Ala Pro Ala Thr Thr Phe Ala His Leu  
1 5 10 15

Asp Ala Thr Thr  
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<400> 355

Asn Ile Val Gly Ser Glu His Tyr Asp Val Ala Arg Gly Val Gln Lys  
1 5 10 15

Ile Leu Gln Asp  
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<400> 356

Tyr Lys Ser Leu Gln Asp Ile Ile Ala Ile Leu Gly Met Asp Glu Leu  
1 5 10 15

Ser Glu Glu Asp  
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<210> 357  
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<400> 357

Lys Leu Thr Val Ser Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln  
1 5 10 15

Pro Phe Gln Val  
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<400> 358

Val Ala Glu Val Phe Thr Gly His Met Gly Lys Leu Val Pro Leu Lys  
1 5 10 15

Glu Thr Ile Lys  
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<212> PRT  
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<400> 359

Ala Asp Asp Leu Thr Asp Pro Ala Pro Ala Thr Thr Phe Ala His Leu  
1 5 10 15

Asp Ala Thr Thr Val Leu Ser Arg Ala Ile Ala Glu Leu Gly Ile Tyr  
20 25 30

Pro Ala Val Asp Pro Leu Asp Ser Thr Ser Arg Ile Met Asp Pro Asn  
35 40 45

Ile Val  
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Ile Leu Gly Met Asp Glu Leu Ser Glu Glu Asp Lys Leu Thr Val Ser  
1 5 10 15

Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln Pro Phe Gln Val Ala  
20 25 30

Glu Val Phe Thr Gly His Met Gly Lys Leu Val Pro Leu Lys Glu Thr  
35 40 45

Ile Lys  
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<210> 361  
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<400> 361

Glu Ile Asp Ala Leu Ala Val Ala Tyr Gly Val Ala Met Asn Lys Leu  
1 5 10 15

Thr Leu Pro Ile  
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<213> Homo sapiens

<400> 362

Glu Gln Ser Ala Leu Phe Gln Met Pro Leu Glu Ser Phe His Ser Leu  
1 5 10 15

Gln Glu Asp Trp  
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<213> Homo sapiens

<400> 363

Arg Arg Glu Gln Glu Leu Ala Glu Arg Glu Met Asp Ile Val Glu Arg  
1 5 10 15

Glu Leu His Leu  
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<400> 364

Glu His Lys Ile Thr Val Gln Ala Ser Pro Thr Leu Asp Lys Arg Lys  
1 5 10 15

Gly Ser Asp Gly  
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<400> 365

Ser Ser Ser Gly Gly Ser Gly Thr Trp Ser Arg Gly Gly Pro Pro Lys  
1 5 10 15

Lys Glu Glu Leu  
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<213> Homo sapiens

<400> 366

Leu Glu Ser Phe His Ser Leu Gln Glu Asp Trp Lys Leu Glu Ile Gln  
1 5 10 15

His Met Phe Asp Asp Leu Arg Thr Lys Glu Lys Glu Leu Arg Ser Arg  
20 25 30

Glu Glu Glu Leu Leu Arg Ala Ala Gln Glu Gln Arg Phe Gln Glu Glu  
35 40 45

Gln Leu  
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<400> 367

Pro Thr Leu Asp Lys Arg Lys Gly Ser Asp Gly Ala Ser Pro Pro Ala  
1 5 10 15

Ser Pro Ser Ile Ile Pro Arg Leu Arg Ala Ile Arg Leu Thr Pro Val  
20 25 30

Asp Cys Gly Gly Ser Ser Ser Gly Ser Ser Ser Gly Gly Ser Gly Thr  
35 40 45

Trp Ser  
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<210> 368  
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<400> 368

His His Ser Phe Pro Tyr Asp Tyr Ser Ala Ser Glu Tyr Arg Trp His  
1 5 10 15

Ile Asn Phe Asn  
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<400> 369

Thr Phe Phe Ile Asp Trp Met Ala Ala Leu Gly Leu Thr Tyr Asp Arg  
1 5 10 15

Lys Lys Val Ser  
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<400> 370

Ser Lys Ala Ala Ile Leu Ala Arg Ile Lys Arg Thr Gly Asp Gly Asn  
1 5 10 15

Tyr Lys Ser Gly  
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<400> 371

Ala Ser Glu Tyr Arg Trp His Ile Asn Phe Asn Thr Phe Phe Ile Asp  
1 5 10 15

Trp Met Ala Ala  
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<400> 372

Thr Tyr Asp Arg Lys Lys Val Ser Lys Ala Ala Ile Leu Ala Arg Ile  
1 5 10 15

Lys Arg Thr Gly  
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<213> Homo sapiens

<400> 373

His His Ser Phe Pro Tyr Asp Tyr Ser Ala Ser Glu Tyr Arg Trp His  
1 5 10 15

Ile Asn Phe Asn Thr Phe Phe Ile Asp Trp Met Ala Ala Leu Gly Leu  
20 25 30

Thr Tyr Asp Arg Lys Lys Val Ser Lys Ala Ala Ile Leu Ala Arg Ile  
35 40 45

Lys Arg  
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<400> 374

Ala Ser Glu Tyr Arg Trp His Ile Asn Phe Asn Thr Phe Phe Ile Asp  
1 5 10 15

Trp Met Ala Ala Leu Gly Leu Thr Tyr Asp Arg Lys Lys Val Ser Lys  
20 25 30

Ala Ala Ile Leu Ala Arg Ile Lys Arg Thr Gly Asp Gly Asn Tyr Lys  
35 40 45

Ser Gly  
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<400> 375

Asp Thr Gly Gly Ala Asn Ile Pro Ala Leu Asn Glu Leu Leu Ser Val  
1 5 10 15

Trp Asn Met Gly  
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<210> 376  
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<400> 376

Ala Asn His Asp Met Tyr Tyr Ala Ser Gly Cys Ser Ile Ala Lys Phe  
1 5 10 15

Pro Glu Asp Gly  
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<210> 377  
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<400> 377

Ile Val Leu Tyr Gly Asp Ser Asn Cys Leu Asp Asp Ser His Arg Gln  
1 5 10 15

Lys Asp Cys Phe  
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<400> 378

Glu Gly Asn His Leu His Arg Tyr Ser Lys Val Leu Glu Ala His Leu  
1 5 10 15

Gly Asp Pro Lys  
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<400> 379

Pro Leu Asn Glu Thr Ala Pro Ser Asn Leu Trp Lys His Gln Lys Leu  
1 5 10 15

Leu Ser Ile Asp  
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<400> 380

Gly Cys Ser Ile Ala Lys Phe Pro Glu Asp Gly Val Val Ile Thr Gln  
1 5 10 15

Thr Phe Lys Asp Gln Gly Leu Glu Val Leu Lys Gln Glu Thr Ala Val  
20 25 30

Val Glu Asn Val Pro Ile Leu Gly Leu Tyr Gln Ile Pro Ala Glu Gly  
35 40 45

Gly Gly  
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<210> 381  
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<400> 381

Asp Asp Ser His Arg Gln Lys Asp Cys Phe Trp Leu Leu Asp Ala Leu  
1 5 10 15

Leu Gln Tyr Thr Ser Tyr Gly Val Thr Pro Pro Ser Leu Ser His Ser  
20 25 30

Gly Asn Arg Gln Arg Pro Pro Ser Gly Ala Gly Ser Val Thr Pro Glu  
35 40 45

Arg Met  
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<210> 382  
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<400> 382

Cys Val His Asp Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His  
1 5 10 15

Cys Phe Cys Val  
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<210> 383  
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<400> 383

Asn Thr Tyr Gln Ile Asn Ala Arg Thr Glu Leu Ala Val Arg Tyr Asn  
1 5 10 15

Asp Ile Ser Pro  
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<210> 384  
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<400> 384

Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile Met Asp Ser Phe Lys  
1 5 10 15

Glu Lys Met Glu  
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<210> 385  
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<212> PRT  
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<400> 385

Leu Glu Glu Tyr Phe Met Gln Ser Asp Arg Glu Lys Ser Glu Gly Leu  
1 5 10 15

Pro Val Ala Pro  
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<210> 386  
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<400> 386

Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile  
1 5 10 15

Asp Asp Ala Met  
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<210> 387  
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<213> Homo sapiens

<400> 387

Asn Glu Met Leu Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu  
1 5 10 15

Val Arg Asp Phe Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe  
20 25 30

Cys Val His Asp Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His  
35 40 45

Cys Phe  
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<210> 388  
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<213> Homo sapiens

<400> 388

Asp Arg Glu Lys Ser Glu Gly Leu Pro Val Ala Pro Phe Met Asp Arg  
1 5 10 15

Asp Lys Val Thr Lys Ala Thr Ala Gln Ile Gly Phe Ile Lys Phe Val  
20 25 30

Leu Ile Pro Met Phe Glu Thr Val Thr Lys Leu Phe Pro Met Val Glu  
35 40 45

Glu Ile  
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<210> 389

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<213> Homo sapiens

<400> 389

Ser Glu Leu Glu Lys Glu Gly Leu Arg Cys Arg Ser Asp Ser Glu Asp  
1 5 10 15

Glu Cys Ser Thr  
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<210> 390

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<212> PRT

<213> Homo sapiens

<400> 390

Phe Lys Val Gly Asp Asp Cys Arg Gln Asp Met Leu Ala Leu Gln Ile  
1 5 10 15

Ile Asp Leu Phe  
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<210> 391

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<213> Homo sapiens

<400> 391

Gly Arg Gln Thr Asp Phe Gly Met Tyr Asp Tyr Phe Thr Arg Gln Tyr  
1 5 10 15

Gly Asp Glu Ser  
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<210> 392



<211> 20  
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<400> 392

Gly His Ile Ile His Ile Asp Phe Gly Phe Met Phe Glu Ser Ser Pro  
1 5 10 15

Gly Gly Asn Leu  
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<210> 393  
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<400> 393

Pro Tyr Met Asp Ala Val Val Ser Leu Val Thr Leu Met Leu Asp Thr  
1 5 10 15

Gly Leu Pro Cys  
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<210> 394  
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<400> 394

Tyr Asp Tyr Phe Thr Arg Gln Tyr Gly Asp Glu Ser Thr Leu Ala Phe  
1 5 10 15

Gln Gln Ala Arg Tyr Asn Phe Ile Arg Ser Met Ala Ala Tyr Ser Leu  
20 25 30

Leu Leu Phe Leu Leu Gln Ile Lys Asp Arg His Asn Gly Asn Ile Met  
35 40 45

Leu Asp  
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<210> 395  
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<213> Homo sapiens

<400> 395

Phe Met Phe Glu Ser Ser Pro Gly Gly Asn Leu Gly Trp Glu Pro Asp  
1 5 10 15

Ile Lys Leu Thr Asp Glu Met Val Met Ile Met Gly Gly Lys Met Glu  
Page 81

20 25 30

Ala Thr Pro Phe Lys Trp Phe Met Glu Met Cys Val Arg Gly Tyr Leu  
 35 40 45

Ala Val  
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<210> 396  
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<400> 396

Tyr Ser Asn Asp Phe Asn Ser Gly Glu Ala Asn Thr Ser Asp Ala Phe  
 1 5 10 15

Asn Trp Thr Val  
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<210> 397  
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<400> 397

Leu Ser Pro Ser Cys Leu Ser Leu Leu His Leu Gln Glu Lys Asn Trp  
 1 5 10 15

Ser Ala Leu Leu  
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<210> 398  
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 <212> PRT  
 <213> Homo sapiens

<400> 398

Thr Ala Val Val Ile Ile Leu Thr Ile Ala Gly Asn Ile Leu Val Ile  
 1 5 10 15

Met Ala Val Ser  
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<210> 399  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 399

Leu Glu Lys Lys Leu Gln Asn Ala Thr Asn Tyr Phe Leu Met Ser Leu  
 Page 82

1 5 10 15

Ala Ile Ala Asp  
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<210> 400  
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<212> PRT  
<213> Homo sapiens

<400> 400

Leu Met Ser Leu Ala Ile Ala Asp Met Leu Leu Gly Phe Leu Val Met  
1 5 10 15

Pro Val Ser Met  
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<210> 401  
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<400> 401

Leu Tyr Ser Asn Asp Phe Asn Ser Gly Glu Ala Asn Thr Ser Asp Ala  
1 5 10 15

Phe Asn Trp Thr Val Asp Ser Glu Asn Arg Thr Asn Leu Ser Cys Glu  
20 25 30

Gly Cys Leu Ser Pro Ser Cys Leu Ser Leu Leu His Leu Gln Glu Lys  
35 40 45

Asn Trp  
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<210> 402  
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<400> 402

Ala Leu Leu Thr Ala Val Val Ile Ile Leu Thr Ile Ala Gly Asn Ile  
1 5 10 15

Leu Val Ile Met Ala Val Ser Leu Glu Lys Lys Leu Gln Asn Ala Thr  
20 25 30

Asn Tyr Phe Leu Met Ser Leu Ala Ile Ala Asp Met Leu Leu Gly Phe  
35 40 45

Leu Val  
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<210> 403  
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<212> PRT  
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<400> 403

Val Ile His Glu Val Leu His His Gln Arg His Val Arg Thr Ile Trp  
1 5 10 15

Gln His Arg Lys  
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<210> 404  
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<400> 404

Leu His Arg Ala Arg Ala Leu Gln Lys Arg His Glu Asp Phe Glu Glu  
1 5 10 15

Val Ala Gln Asn  
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<400> 405

Val Arg Arg Val Glu Gln Arg Lys Ile Leu Leu Asp Met Ser Val Ser  
1 5 10 15

Phe His Thr His  
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<210> 406  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 406

Thr Leu Gln Val Thr Val Asn Val Ile Lys Glu Gly Glu Asp Leu Ile  
1 5 10 15

Gln Gln Leu Arg  
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<210> 407  
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 <213> Homo sapiens

<400> 407

Glu Leu Phe Gln Glu Arg Lys Ile Lys Leu Glu Leu Phe Leu His Val  
 1 5 10 15

Arg Ile Phe Glu  
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<210> 408  
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 <213> Homo sapiens

<400> 408

Gln Lys Arg His Glu Asp Phe Glu Glu Val Ala Gln Asn Thr Tyr Thr  
 1 5 10 15

Asn Ala Asp Lys Leu Leu Glu Ala Ala Glu Gln Leu Ala Gln Thr Gly  
 20 25 30

Glu Cys Asp Pro Glu Glu Ile Tyr Gln Ala Ala His Gln Leu Glu Asp  
 35 40 45

Arg Ile  
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<210> 409  
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 <212> PRT  
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<400> 409

Lys Glu Gly Glu Asp Leu Ile Gln Gln Leu Arg Asp Ser Ala Ile Ser  
 1 5 10 15

Ser Asn Lys Thr Pro His Asn Ser Ser Ile Asn His Ile Glu Thr Val  
 20 25 30

Leu Gln Gln Leu Asp Glu Ala Gln Ser Gln Met Glu Glu Leu Phe Gln  
 35 40 45

Glu Arg  
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<210> 410  
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<400> 410

Arg Ile Leu Ile Asn Pro Gly Asn His Leu Lys Ile Gln Glu Gly Thr  
1 5 10 15

Leu Gly Phe Phe  
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<210> 411

<211> 20

<212> PRT

<213> Homo sapiens

<400> 411

Ile Ala Ser Asp Ala Lys Glu Val Lys Arg Ala Phe Phe Tyr Cys Lys  
1 5 10 15

Ala Cys His Asp  
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<210> 412

<211> 20

<212> PRT

<213> Homo sapiens

<400> 412

Asp Ile Thr Asp Pro Lys Arg Ile Lys Lys Cys Gly Cys Lys Arg Leu  
1 5 10 15

Glu Asp Glu Gln  
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<210> 413

<211> 20

<212> PRT

<213> Homo sapiens

<400> 413

Pro Ser Thr Leu Ser Pro Lys Lys Lys Gln Arg Asn Gly Gly Met Arg  
1 5 10 15

Asn Ser Pro Asn  
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<210> 414

<211> 20

<212> PRT

<213> Homo sapiens

<400> 414

Thr Ser Pro Lys Leu Met Arg His Asp Pro Leu Leu Ile Pro Gly Asn  
1 5 10 15

Asp Gln Ile Asp  
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<210> 415  
<211> 50  
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<213> Homo sapiens

<400> 415

Ile Ile Thr Glu Leu Val Asn Asp Thr Asn Val Gln Phe Leu Asp Gln  
1 5 10 15

Asp Asp Asp Asp Asp Pro Asp Thr Glu Leu Tyr Leu Thr Gln Pro Phe  
20 25 30

Ala Cys Gly Thr Ala Phe Ala Val Ser Val Leu Asp Ser Leu Met Ser  
35 40 45

Ala Thr  
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<210> 416  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 416

Val Ser Ile Leu Pro Gly Thr Pro Leu Ser Arg Ala Asp Leu Arg Ala  
1 5 10 15

Val Asn Ile Asn Leu Cys Asp Met Cys Val Ile Leu Ser Ala Asn Gln  
20 25 30

Asn Asn Ile Asp Asp Thr Ser Leu Gln Asp Lys Glu Cys Ile Leu Ala  
35 40 45

Ser Leu  
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<210> 417  
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<213> Homo sapiens

<400> 417

Val Val Tyr Tyr His Asn Ile Glu Thr Ser Asn Phe Pro Lys Leu Leu  
1 5 10 15

Ile Ala Leu Leu  
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<210> 418  
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<212> PRT  
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<400> 418

Met Leu Leu Leu Val Glu Val Asn Val Ile Arg Val Arg Arg Tyr Ile  
1 5 10 15

Phe Phe Lys Thr  
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<210> 419  
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<212> PRT  
<213> Homo sapiens

<400> 419

Pro Arg Glu Val Lys Pro Pro Glu Asp Leu Gln Asp Leu Gly Val Arg  
1 5 10 15

Phe Leu Gln Pro  
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<210> 420  
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<212> PRT  
<213> Homo sapiens

<400> 420

Phe Val Asn Leu Leu Ser Lys Gly Thr Tyr Trp Trp Met Asn Ala Phe  
1 5 10 15

Ile Lys Thr Ala  
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<210> 421  
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<212> PRT  
<213> Homo sapiens

<400> 421

His Lys Lys Pro Ile Asp Leu Arg Ala Ile Gly Lys Leu Pro Ile Ala  
1 5 10 15

Met Arg Ala Leu  
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<210> 422  
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<212> PRT  
<213> Homo sapiens

<400> 422

Val Val Tyr Tyr His Asn Ile Glu Thr Ser Asn Phe Pro Lys Leu Leu  
1 5 10 15

Ile Ala Leu Leu Val Tyr Trp Thr Leu Ala Phe Ile Thr Lys Thr Ile  
20 25 30

Lys Phe Val Lys Phe Leu Asp His Ala Ile Gly Phe Ser Gln Leu Arg  
35 40 45

Phe Cys  
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<210> 423  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 423

Arg Phe Leu Gln Pro Phe Val Asn Leu Leu Ser Lys Gly Thr Tyr Trp  
1 5 10 15

Trp Met Asn Ala Phe Ile Lys Thr Ala His Lys Lys Pro Ile Asp Leu  
20 25 30

Arg Ala Ile Gly Lys Leu Pro Ile Ala Met Arg Ala Leu Thr Asn Tyr  
35 40 45

Gln Arg  
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<210> 424  
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<213> Homo sapiens

<400> 424

Glu Met Glu Glu Asp Gln Arg Trp Leu Glu Lys Glu Glu Arg Phe Leu  
1 5 10 15

Lys Pro Asp Val Arg  
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<210> 425  
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<212> PRT  
<213> Homo sapiens

<400> 425

Arg Gly Ser Ile Asp Arg Glu Asp Gly Ser Leu Gln Gly Pro Ile Gly  
1 5 10 15

Asn Gln His Ile Tyr Gln Pro Val Gly Val  
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<210> 426  
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<400> 426

Gly Val Lys Leu Gln Pro Gln Glu Ile Ser Pro Pro Pro Thr Ala Asn  
1 5 10 15

Leu Asp Arg Ser Asn Asp Lys Val Tyr  
20 25

<210> 427  
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<400> 427

Leu Arg Thr Leu Leu Ala Thr Val Asp Glu Thr Ile Pro Leu Leu Pro  
1 5 10 15

Ala Ser Thr His Arg Glu  
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<210> 428  
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<400> 428

Leu Asn Ser Asp Leu Gly Glu Leu Ile Asn Lys Met Lys Leu Ala Gln  
1 5 10 15

Gln Tyr Val Met Thr Ser Leu Gln  
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<210> 429  
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<400> 429

Gly Ser Leu Gln Gly Pro Ile Gly Asn Gln His Ile Tyr Gln Pro Val  
1 5 10 15

Gly Lys Pro Asp Pro Ala Ala Pro Pro Lys Lys Pro Pro Arg Pro Gly  
20 25 30

Ala Pro Gly His Leu Gly Ser Leu Ala Ser Leu Ser Ser Pro Ala Asp  
35 40 45

Ser Tyr  
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<210> 430  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 430

Pro Pro Pro Thr Ala Asn Leu Asp Arg Ser Asn Asp Lys Val Tyr Glu  
1 5 10 15

Asn Val Thr Gly Leu Val Lys Ala Val Ile Glu Met Ser Ser Lys Ile  
20 25 30

Gln Pro Ala Pro Pro Glu Glu Tyr Val Pro Met Val Lys Glu Val Gly  
35 40 45

Leu Ala  
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<210> 431  
<211> 20  
<212> PRT  
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<400> 431

Ile Asp Leu Asp Pro His Phe Asn Asp Ile Leu Gly Gln His Ser Arg  
1 5 10 15

Lys Arg Trp Glu  
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<210> 432  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 432

Asn Phe Ile His Ser Glu Asn Arg His Leu Val Ser Pro Glu Ala Leu  
1 5 10 15

Asp Leu Leu Asp  
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<210> 433  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 433

Lys Leu Leu Arg Tyr Asp His Gln Gln Arg Leu Thr Ala Lys Glu Ala  
1 5 10 15

Met Glu His Pro  
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<210> 434  
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<212> PRT  
<213> Homo sapiens

<400> 434

Tyr Phe Tyr Pro Val Val Lys Glu Gln Ser Gln Pro Cys Ala Asp Asn  
1 5 10 15

Ala Val Leu Ser  
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<210> 435  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 435

Glu Gln Ser Gln Pro Cys Ala Asp Asn Ala Val Leu Ser Ser Gly Leu  
1 5 10 15

Thr Ala Ala Arg  
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<210> 436  
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<212> PRT  
<213> Homo sapiens

<400> 436

Ile Asp Leu Asp Pro His Phe Asn Asp Ile Leu Gly Gln His Ser Arg  
1 5 10 15

Lys Arg Trp Glu Asn Phe Ile His Ser Glu Asn Arg His Leu Val Ser  
20 25 30

Pro Glu Ala Leu Asp Leu Leu Asp Lys Leu Leu Arg Tyr Asp His Gln  
35 40 45

Gln Arg  
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<210> 437  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 437

Leu Leu Asp Lys Leu Leu Arg Tyr Asp His Gln Gln Arg Leu Thr Ala  
1 5 10 15

Lys Glu Ala Met Glu His Pro Tyr Phe Tyr Pro Val Val Lys Glu Gln  
20 25 30

Ser Gln Pro Cys Ala Asp Asn Ala Val Leu Ser Ser Gly Leu Thr Ala  
35 40 45

Ala Arg  
50

<210> 438  
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<212> PRT  
<213> Homo sapiens

<400> 438

Ala His Ala Ile Arg Leu Leu Leu Glu Phe Thr Asp Thr Ser Tyr Glu  
1 5 10 15

Glu Lys Arg Tyr  
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<210> 439  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 439

Tyr Leu Leu Asp Gly Lys Asn Lys Ile Thr Gln Ser Asn Ala Ile Leu  
1 5 10 15

Arg Tyr Ile Ala  
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<210> 440

<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 440

Glu Lys Leu Lys Pro Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys  
1 5 10 15

Gln Phe Ser Met  
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<210> 441  
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<212> PRT  
<213> Homo sapiens

<400> 441

Glu Lys Leu Lys Pro Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys  
1 5 10 15

Gln Phe Ser Met  
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<210> 442  
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<212> PRT  
<213> Homo sapiens

<400> 442

Ser Met Cys Lys Met Pro Ile Asn Asn Lys Met Ala Gln Trp Gly Asn  
1 5 10 15

Lys Pro Val Cys  
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<210> 443  
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<212> PRT  
<213> Homo sapiens

<400> 443

Gly Lys Asn Lys Ile Thr Gln Ser Asn Ala Ile Leu Arg Tyr Ile Ala  
1 5 10 15

Arg Lys His Asn Met Cys Gly Glu Thr Glu Glu Glu Lys Ile Arg Val  
20 25 30

Asp Ile Ile Glu Asn Gln Val Met Asp Phe Arg Thr Gln Leu Ile Arg  
35 40 45

Leu Cys

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<210> 444  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 444

Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys Gln Phe Ser Met Phe  
1 5 10 15

Leu Trp Lys Phe Ser Trp Phe Ala Gly Glu Lys Leu Thr Phe Val Asp  
20 25 30

Phe Leu Thr Tyr Asp Ile Leu Asp Gln Asn Arg Ile Phe Asp Pro Lys  
35 40 45

Cys Leu  
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<210> 445  
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<212> PRT  
<213> Homo sapiens

<400> 445

Leu Arg Val Asn Asp Ser Ile Leu Phe Val Asn Glu Val Asp Val Arg  
1 5 10 15

Glu Val Thr His  
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<210> 446  
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<212> PRT  
<213> Homo sapiens

<400> 446

Asn Glu Val Asp Val Arg Glu Val Thr His Ser Ala Ala Val Glu Ala  
1 5 10 15

Leu Lys Glu Ala  
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<210> 447  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 447

Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile Ile Glu  
Page 95

1 5 10 15

Gly Gly Ala Ala  
20

<210> 448  
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<212> PRT  
<213> Homo sapiens

<400> 448

Leu Lys Val Ala Lys Pro Ser Asn Ala Tyr Leu Ser Asp Ser Tyr Ala  
1 5 10 15

Pro Pro Asp Ile  
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<210> 449  
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<400> 449

Pro Ala Glu Lys Val Met Glu Ile Lys Leu Ile Lys Gly Pro Lys Gly  
1 5 10 15

Leu Gly Phe Ser  
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<400> 450

Arg Glu Val Thr His Ser Ala Ala Val Glu Ala Leu Lys Glu Ala Gly  
1 5 10 15

Ser Ile Val Arg Leu Tyr Val Met Arg Arg Lys Pro Pro Ala Glu Lys  
20 25 30

Val Met Glu Ile Lys Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser  
35 40 45

Ile Ala  
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<210> 451  
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<400> 451

Ile Tyr Val Thr Lys Ile Ile Glu Gly Gly Ala Ala His Lys Asp Gly  
1 5 10 15

Arg Leu Gln Ile Gly Asp Lys Ile Leu Ala Val Asn Ser Val Gly Leu  
20 25 30

Glu Asp Val Met His Glu Asp Ala Val Ala Ala Leu Lys Asn Thr Tyr  
35 40 45

Asp Val  
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<210> 452

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<213> Homo sapiens

<400> 452

Ser Thr Pro Lys Leu Asn Gly Ser Gly Pro Ser Trp Trp Pro Glu Cys  
1 5 10 15

Thr Cys Thr Asn  
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<210> 453

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<213> Homo sapiens

<400> 453

Asn Gly Ser Asp Gly Met Phe Lys Tyr Glu Glu Ile Val Leu Glu Arg  
1 5 10 15

Gly Asn Ser Gly  
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<210> 454

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<213> Homo sapiens

<400> 454

Asp Cys Val Leu Arg Val Asn Glu Val Glu Val Ser Glu Val Val His  
1 5 10 15

Ser Arg Ala Val  
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<210> 455  
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<400> 455

Phe Ile Thr Lys Ile Ile Pro Gly Gly Ala Ala Ala Met Asp Gly Arg  
1 5 10 15

Leu Gly Val Asn  
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<210> 456  
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<400> 456

Thr Ser Asp Met Val Tyr Leu Lys Val Ala Lys Pro Gly Ser Leu His  
1 5 10 15

Leu Asn Asp Met  
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<400> 457

Pro Pro Thr Arg Tyr Ser Pro Ile Pro Arg His Met Leu Ala Glu Glu  
1 5 10 15

Asp Phe Thr Arg Glu Pro Arg Lys Ile Ile Leu His Lys Gly Ser Thr  
20 25 30

Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly Glu Gly Ile Phe  
35 40 45

Val Ser  
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<210> 458  
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<213> Homo sapiens

<400> 458

Asp Leu Ser Gly Glu Leu Arg Arg Gly Asp Arg Ile Leu Ser Val Asn  
1 5 10 15

Gly Val Asn Leu Arg Asn Ala Thr His Glu Gln Ala Ala Ala Ala Leu  
20 25 30

Lys Arg Ala Gly Gln Ser Val Thr Ile Val Ala Gln Tyr Arg Pro Glu  
35 40 45

Glu Tyr  
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<210> 459  
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<213> Homo sapiens

<400> 459

Leu Val Leu Ser Leu Arg Arg Arg Leu Arg Glu Glu Leu Glu Lys Gly  
1 5 10 15

Ala Lys Ala Thr  
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<210> 460  
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<400> 460

Ala Thr Glu Arg Thr Leu Val Tyr Pro Leu Glu Leu Pro Lys Glu Pro  
1 5 10 15

Thr Ser Pro Pro  
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<210> 461  
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<400> 461

Phe Arg Pro Cys Pro Glu Pro Asp Glu Lys Leu Trp Asp Pro Val Gly  
1 5 10 15

Tyr Tyr Tyr Ser  
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<400> 462

Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg Cys Gln Pro Gly  
1 5 10 15

Gly Gly Pro Pro  
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<400> 463

Ser Pro Pro Pro Gly Ile Pro Gly Gln Pro Leu Pro Ser Pro Thr Arg  
1 5 10 15

Leu His Leu Gly  
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<400> 464

Ser Asn Ala Asn Gly Tyr Val Arg Leu Gln Leu Gly Gly Glu Asp Arg  
1 5 10 15

Gly Gly Leu Gly His Pro Leu Pro Glu Leu Ala Asp Glu Leu Arg Arg  
20 25 30

Lys Leu Gln Gln Arg Gln Pro Leu Pro Asp Ser Asn Pro Glu Glu Ser  
35 40 45

Ser Val  
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<400> 465

Tyr Tyr Tyr Ser Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg  
1 5 10 15

Cys Gln Pro Gly Gly Gly Pro Pro Ser Pro Pro Pro Gly Ile Pro Gly  
20 25 30

Gln Pro Leu Pro Ser Pro Thr Arg Leu His Leu Gly Gly Gly Arg Asn  
35 40 45

Ser Asn  
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<210> 466  
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<400> 466

Ser Phe His Arg Gly Ser Thr Ser Ser Ser Pro Tyr Val Ala Ala Ser  
1 5 10 15

His Thr Pro Pro  
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<210> 467  
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<400> 467

Ile Asn Gly Ser Asp Ser Ile Leu Gly Thr Arg Gly Asn Ala Ala Gly  
1 5 10 15

Ser Ser Gln Thr  
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<210> 468  
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<213> Homo sapiens

<400> 468

Gly Asp Ala Leu Gly Lys Ala Leu Ala Ser Ile Tyr Ser Pro Asp His  
1 5 10 15

Thr Ser Ser Ser  
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<210> 469  
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<400> 469

Phe Pro Ser Asn Pro Ser Thr Pro Val Gly Ser Pro Ser Pro Leu Thr  
1 5 10 15

Gly Thr Ser Gln  
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<210> 470  
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<400> 470

Trp Pro Arg Pro Gly Gly Gln Ala Pro Ser Ser Pro Ser Tyr Glu Asn  
1 5 10 15

Ser Leu His Ser  
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<210> 471  
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<213> Homo sapiens

<400> 471

Leu Gln Ser Arg Met Glu Asp Arg Leu Asp Arg Leu Asp Asp Ala Ile  
1 5 10 15

His Val Leu Arg Asn His Ala Val Gly Pro Ser Thr Ser Leu Pro Ala  
20 25 30

Gly His Ser Asp Ile His Ser Leu Leu Gly Pro Ser His Asn Ala Pro  
35 40 45

Ile Gly  
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<210> 472  
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<213> Homo sapiens

<400> 472

Leu Gln Ser Arg Met Glu Asp Arg Leu Asp Arg Leu Asp Asp Ala Ile  
1 5 10 15

His Val Leu Arg Asn His Ala Val Gly Pro Ser Thr Ser Leu Pro Ala  
20 25 30

Gly His Ser Asp Ile His Ser Leu Leu Gly Pro Ser His Asn Ala Pro  
35 40 45

Ile Gly  
50

<210> 473  
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<212> PRT  
<213> Homo sapiens

<400> 473

Asn Ile Leu Lys Lys Ala Asn Gln Lys Arg Met Leu Gly Asp Met Ala  
1 5 10 15

Ile Glu Gly Gly  
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<210> 474  
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<400> 474

Asn Phe Thr Thr Ala Tyr Phe Lys Gln Gln Thr Ile Arg Glu Leu Phe  
1 5 10 15

Asp Met Pro Leu  
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<210> 475  
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<400> 475

Glu Glu Pro Ser Ser Ser Ser Val Pro Ser Ala Pro Glu Glu Glu Glu  
1 5 10 15

Glu Thr Val Ala  
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<210> 476  
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<400> 476

Ser Lys Gln Thr His Ile Leu Glu Gln Ala Leu Cys Arg Ala Glu Asp  
1 5 10 15

Glu Glu Asp Ile  
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<210> 477  
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<213> Homo sapiens

<400> 477

Arg Ala Ala Thr Gln Ala Lys Ala Glu Gln Val Ala Glu Leu Ala Glu  
1 5 10 15

Phe Asn Glu Asn  
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<210> 478  
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<400> 478

Asp Gly Phe Pro Ala Gly Glu Gly Glu Glu Ala Gly Arg Pro Gly Ala  
1 5 10 15

Glu Asp Glu Glu Met Ser Arg Ala Glu Gln Glu Ile Ala Ala Leu Val  
20 25 30

Glu Gln Leu Thr Pro Ile Glu Arg Tyr Ala Met Lys Phe Leu Glu Ala  
35 40 45

Ser Leu  
50

<210> 479  
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<213> Homo sapiens

<400> 479

Ala Glu Gln Glu Ile Ala Ala Leu Val Glu Gln Leu Thr Pro Ile Glu  
1 5 10 15

Arg Tyr Ala Met Lys Phe Leu Glu Ala Ser Leu Glu Glu Val Ser Arg  
20 25 30

Glu Glu Leu Lys Gln Ala Glu Glu Gln Val Glu Ala Ala Arg Lys Asp  
35 40 45

Leu Asp  
50

<210> 480  
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<400> 480

Met Gly Gly Ser Gly Ser Arg Leu Ser Lys Glu Leu Leu Ala Glu Tyr  
1 5 10 15



Gln Asp Leu Thr  
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<210> 481  
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<212> PRT  
<213> Homo sapiens

<400> 481

Phe Leu Thr Lys Gln Glu Ile Leu Leu Ala His Arg Arg Phe Cys Glu  
1 5 10 15

Leu Leu Pro Gln  
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<210> 482  
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<212> PRT  
<213> Homo sapiens

<400> 482

Glu Gln Arg Ser Val Glu Ser Ser Leu Arg Ala Gln Val Pro Phe Glu  
1 5 10 15

Gln Ile Leu Ser  
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<210> 483  
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<212> PRT  
<213> Homo sapiens

<400> 483

Leu Pro Glu Leu Lys Ala Asn Pro Phe Lys Glu Arg Ile Cys Arg Val  
1 5 10 15

Phe Ser Thr Ser  
20

<210> 484  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 484

Pro Ala Lys Asp Ser Leu Ser Phe Glu Asp Phe Leu Asp Leu Leu Ser  
1 5 10 15

Val Phe Ser Asp  
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<210> 485  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 485

Thr Ala Thr Pro Asp Ile Lys Ser His Tyr Ala Phe Arg Ile Phe Asp  
1 5 10 15

Phe Asp Asp Asp Gly Thr Leu Asn Arg Glu Asp Leu Ser Arg Leu Val  
20 25 30

Asn Cys Leu Thr Gly Glu Gly Glu Asp Thr Arg Leu Ser Ala Ser Glu  
35 40 45

Met Lys  
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<210> 486  
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<400> 486

Thr Arg Leu Ser Ala Ser Glu Met Lys Gln Leu Ile Asp Asn Ile Leu  
1 5 10 15

Glu Glu Ser Asp Ile Asp Arg Asp Gly Thr Ile Asn Leu Ser Glu Phe  
20 25 30

Gln His Val Ile Ser Arg Ser Pro Asp Phe Ala Ser Ser Phe Lys Ile  
35 40 45

Val Leu  
50

<210> 487  
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<213> Homo sapiens

<400> 487

Ala Asp Leu Gln Phe Ser Gln Leu Leu Gly Asn Leu Leu Gly Pro Ala  
1 5 10 15

Gly Pro Gly Ala  
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<210> 488

<211> 20  
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<400> 488

Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala Pro Glu Gln Gln Thr Met Pro  
1 5 10 15

Pro Pro Gly Ser  
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<210> 489  
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<212> PRT  
<213> Homo sapiens

<400> 489

Gly Ser Ser Glu Ser Ile Ala Ala Phe Ile Gln Arg Leu Ser Gly Ser  
1 5 10 15

Ser Asn Ile Phe  
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<210> 490  
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<212> PRT  
<213> Homo sapiens

<400> 490

Leu Gln Pro Gln Leu Arg Ser Phe Phe His Gln His Tyr Leu Gly Gly  
1 5 10 15

Gln Glu Pro Thr  
20

<210> 491  
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<212> PRT  
<213> Homo sapiens

<400> 491

Phe Leu Gln Glu Gln Phe Asn Ser Ile Ala Ala His Val Leu His Cys  
1 5 10 15

Thr Asp Ser Gly  
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<210> 492  
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<213> Homo sapiens

<400> 492

Gln Asp Ile Gln Ser Gln Arg Lys Val Lys Pro Gln Pro Pro Leu Ser  
1 5 10 15

Asp Ala Tyr Leu Ser Gly Met Pro Ala Lys Arg Arg Lys Thr Met Gln  
20 25 30

Gly Glu Gly Pro Gln Leu Leu Leu Ser Glu Ala Val Ser Arg Ala Ala  
35 40 45

Lys Ala  
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<210> 493

<211> 50

<212> PRT

<213> Homo sapiens

<400> 493

Val Ser Trp Leu Thr Thr Met Met Gly Leu Arg Leu Gln Val Val Leu  
1 5 10 15

Glu His Met Pro Val Gly Pro Asp Ala Ile Leu Arg Tyr Val Arg Arg  
20 25 30

Val Gly Asp Pro Pro Gln Pro Leu Pro Glu Glu Pro Met Glu Val Gln  
35 40 45

Gly Ala  
50

<210> 494

<211> 20

<212> PRT

<213> Homo sapiens

<400> 494

Pro Asn Met Tyr Asp Asn Val Asn Lys Leu Asn Ala Ser Leu Gln Glu  
1 5 10 15

Thr Ser Val Ser  
20

<210> 495

<211> 20

<212> PRT

<213> Homo sapiens

<400> 495

Ile Ser Ser Thr Lys Gly Met Phe Pro Gly Ser Leu Ala His Thr Thr  
Page 108

1 5 10 15

Thr Lys Val Phe  
20

<210> 496  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 496

Lys Val Phe Asp His Glu Ile Ser Gln Val Pro Glu Asn Asn Phe Ser  
1 5 10 15

Val Gln Pro Thr  
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<210> 497  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 497

Ile Asp Ser Ala Tyr Pro Ala Ser Gly Ser Ile Met Glu Asn Glu Gln  
1 5 10 15

Arg Ser Asn Gln  
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<210> 498  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 498

Met Asn Asn Ile Leu Arg Ile Ile Ala Asp Leu Gln Val Ser Cys Ser  
1 5 10 15

Tyr Asp His Leu  
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<210> 499  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 499

Asp Leu Ala Gly Pro Ser Ala Gly Ser Gly Ser Ala Arg Phe Ser Arg  
1 5 10 15

Arg Pro Thr Cys

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<210> 500  
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<400> 500

Phe Pro Ser Glu Lys Ala Arg His Leu Leu Asp Asp Ser Val Leu Glu  
1 5 10 15

Ser Arg Ser Pro  
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<210> 501  
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<213> Homo sapiens

<400> 501

Leu Gly Ser Ser Glu Ser Ser Glu Phe Ser Glu Glu Met Ser Ser Gly  
1 5 10 15

Leu Glu Ser Pro  
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<210> 502  
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<213> Homo sapiens

<400> 502

Cys Ser Leu Gly Asn Ser Ala Ala Val Pro Thr Met Glu Gly Pro Leu  
1 5 10 15

Arg Arg Lys Thr Leu Leu Lys Glu Gly Arg Lys Pro Ala Leu Ser Ser  
20 25 30

Trp Thr Arg Tyr Trp Val Ile Leu Ser Gly Ser Thr Leu Leu Tyr Tyr  
35 40 45

Gly Ala  
50

<210> 503  
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<212> PRT  
<213> Homo sapiens

<400> 503

His Tyr Lys Ser Thr Pro Gly Lys Lys Val Ser Ile Val Gly Trp Met  
Page 110

1 5 10 15

Val Gln Leu Pro Asp Asp Pro Glu His Pro Asp Ile Phe Gln Leu Asn  
20 25 30

Asn Pro Asp Lys Gly Asn Val Tyr Lys Phe Gln Thr Gly Ser Arg Phe  
35 40 45

His Ala  
50

<400> 507

Gly Arg Trp Phe Ser Ala Gly Leu Ala Ser Asn Ser Ser Trp Leu Arg  
1 5 10 15

Glu Lys Lys Ala  
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<210> 508

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<213> Homo sapiens

<400> 508

Val Glu Thr Asp Tyr Asp Gln Tyr Ala Leu Leu Tyr Ser Gln Gly Ser  
1 5 10 15

Lys Gly Pro Gly  
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<210> 509

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<213> Homo sapiens

<400> 509

Met Ala Thr His His Thr Leu Trp Met Gly Leu Ala Leu Leu Gly Val  
1 5 10 15

Leu Gly Asp Leu Gln Ala Ala Pro Glu Ala Gln Val Ser Val Gln Pro  
20 25 30

Asn Phe Gln Gln Asp Lys Phe Leu Gly Arg Trp Phe Ser Ala Gly Leu  
35 40 45

Ala Ser  
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<210> 510

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<213> Homo sapiens

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Glu Asp Phe Arg Met Ala Thr Leu Tyr Ser Arg Thr Gln Thr Pro Arg  
1 5 10 15

Ala Glu Leu Lys Glu Lys Phe Thr Ala Phe Cys Lys Ala Gln Gly Phe  
20 25 30



Thr Glu Asp Thr Ile Val Phe Leu Pro Gln Thr Asp Lys Cys Met Thr  
 35 40 45

Glu Gln  
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<210> 511  
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<400> 511

Met Phe Leu Val Asn Ser Phe Leu Lys Gly Gly Gly Gly Gly Gly Gly  
 1 5 10 15

Gly Gly Gly Gly  
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<210> 512  
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 <213> Homo sapiens

<400> 512

Gly Asn Val Leu Gly Gly Leu Ile Ser Gly Ala Gly Gly Gly Gly Gly  
 1 5 10 15

Gly Gly Gly Gly  
 20

<210> 513  
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 <213> Homo sapiens

<400> 513

Ile Leu Gly Gly Val Ile Ser Ala Ile Ser Glu Ala Ala Ala Gln Tyr  
 1 5 10 15

Asn Pro Glu Pro  
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<210> 514  
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 <212> PRT  
 <213> Homo sapiens

<400> 514

Glu Ser Glu Glu Val Arg Gln Phe Arg Arg Leu Phe Ala Gln Leu Ala  
 1 5 10 15

Gly Asp Asp Met  
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<210> 515  
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<213> Homo sapiens

<400> 515

Met Asn Ile Leu Asn Lys Val Val Thr Arg His Pro Asp Leu Lys Thr  
1 5 10 15

Asp Gly Phe Gly  
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<210> 516  
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<213> Homo sapiens

<400> 516

Ile Asp Thr Cys Arg Ser Met Val Ala Val Met Asp Ser Asp Thr Thr  
1 5 10 15

Gly Lys Leu Gly Phe Glu Glu Phe Lys Tyr Leu Trp Asn Asn Ile Lys  
20 25 30

Arg Trp Gln Ala Ile Tyr Lys Gln Phe Asp Thr Asp Arg Ser Gly Thr  
35 40 45

Ile Cys  
50

<210> 517  
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<212> PRT  
<213> Homo sapiens

<400> 517

Gly Phe His Leu Asn Glu His Leu Tyr Asn Met Ile Ile Arg Arg Tyr  
1 5 10 15

Ser Asp Glu Ser Gly Asn Met Asp Phe Asp Asn Phe Ile Ser Cys Leu  
20 25 30

Val Arg Leu Asp Ala Met Phe Arg Ala Phe Lys Ser Leu Asp Lys Asp  
35 40 45

Gly Thr  
50

<210> 518  
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<212> PRT  
<213> Homo sapiens

<400> 518

His Val Ile Glu Asp Ser His Lys Lys Ile Thr Ala Gln Ile Lys Phe  
1 5 10 15

Leu Tyr Glu Glu  
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<210> 519  
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<212> PRT  
<213> Homo sapiens

<400> 519

Lys Pro Gln His Tyr Pro Ser Ile His Ile Thr Ala Tyr Glu Asn Asp  
1 5 10 15

Glu Arg Val Pro  
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<210> 520  
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<213> Homo sapiens

<400> 520

Asn Ser Asn Pro Glu Leu Val Arg Ala Val Thr Leu Glu Ala Pro Phe  
1 5 10 15

Leu Asp Val Leu  
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<210> 521  
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<213> Homo sapiens

<400> 521

Arg Gly Gly Gly Glu Leu Gly Leu Gln Trp His Ala Asp Gly Arg Leu  
1 5 10 15

Thr Lys Lys Leu  
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<210> 522  
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<213> Homo sapiens

<400> 522

Ser Lys Asp Gly Lys Leu Val Pro Met Thr Val Phe His Lys Thr Asp  
1 5 10 15

Ser Glu Asp Leu  
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<210> 523

<211> 50

<212> PRT

<213> Homo sapiens

<400> 523

Ala Cys Gly Phe Ile Met Asp Thr Asn Ser Asp Pro Lys Asn Cys Pro  
1 5 10 15

Phe Gln Leu Cys Ser Pro Ile Arg Pro Pro Lys Tyr Tyr Thr Tyr Lys  
20 25 30

Phe Ala Glu Gly Lys Leu Phe Glu Glu Thr Gly His Glu Asp Pro Ile  
35 40 45

Thr Lys  
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<210> 524

<211> 50

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<213> Homo sapiens

<400> 524

Met Asn Trp Asp Leu Phe Phe Thr Met Lys Arg Asn Thr Lys Val Ile  
1 5 10 15

Asp Leu Asp Met Phe Lys Asp His Cys Val Leu Phe Leu Lys His Ser  
20 25 30

Asn Leu Leu Tyr Val Asn Val Ile Gly Leu Ala Asp Asp Ser Val Arg  
35 40 45

Ser Leu  
50

<210> 525

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<213> Homo sapiens

<400> 525

Lys Glu Gly Ile Leu Pro Glu Arg Ala Glu Glu Ala Lys Leu Lys Ala  
1 5 10 15

Lys Tyr Pro Ser  
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<210> 526  
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<212> PRT  
<213> Homo sapiens

<400> 526

Leu Gly Gln Lys Pro Gly Gly Ser Asp Phe Leu Met Lys Arg Leu Gln  
1 5 10 15

Lys Gly Gln Lys  
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<210> 527  
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<213> Homo sapiens

<400> 527

Tyr Phe Asp Ser Gly Asp Tyr Asn Met Ala Lys Ala Lys Met Lys Asn  
1 5 10 15

Lys Gln Leu Pro  
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<210> 528  
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<213> Homo sapiens

<400> 528

Ser Ala Gly Pro Asp Lys Asn Leu Val Thr Gly Asp His Ile Pro Thr  
1 5 10 15

Pro Gln Asp Leu  
20

<210> 529  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 529

Asp Leu Pro Gln Arg Lys Ser Ser Leu Val Thr Ser Lys Leu Ala Gly  
1 5 10 15

Gly Gln Val Glu  
20

<210> 530  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 530

Lys Glu Gly Ile Leu Pro Glu Arg Ala Glu Glu Ala Lys Leu Lys Ala  
1 5 10 15

Lys Tyr Pro Ser Leu Gly Gln Lys Pro Gly Gly Ser Asp Phe Leu Met  
20 25 30

Lys Arg Leu Gln Lys Gly Gln Lys Tyr Phe Asp Ser Gly Asp Tyr Asn  
35 40 45

Met Ala  
50

<210> 531  
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<212> PRT  
<213> Homo sapiens

<400> 531

Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys Glu Leu  
1 5 10 15

Tyr Gly Lys Ile  
20

<210> 532  
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<212> PRT  
<213> Homo sapiens

<400> 532

Ala Glu Ala Phe Arg Leu Pro Thr Ala Glu Val Met Phe Cys Thr Leu  
1 5 10 15

Asn Thr His Lys  
20

<210> 533  
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<212> PRT  
<213> Homo sapiens

<400> 533

Val Asp Met Asp Lys Leu Leu Gly Gly Gln Ile Gly Leu Glu Asp Phe  
 1 5 10 15

Ile Phe Ala His  
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<210> 534  
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 <212> PRT  
 <213> Homo sapiens

<400> 534

Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr Ile  
 1 5 10 15

Thr Asp Asn Gly  
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<210> 535  
 <211> 20  
 <212> PRT  
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<400> 535

Ala Phe Ile Lys Arg Ile Lys Glu Gly Ser Val Ile Asp His Ile His  
 1 5 10 15

Leu Ile Ser Val  
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<210> 536  
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 <212> PRT  
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<400> 536

Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val Ala Arg Leu Leu Lys  
 1 5 10 15

Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys Leu Thr Glu Pro Arg  
 20 25 30

Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg Pro Gly  
 35 40 45

Ser Gly  
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<210> 537  
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<212> PRT  
<213> Homo sapiens

<400> 537

Ala Thr Val Glu Asp Leu Pro Ser Ala Phe Glu Glu Lys Ala Ile Glu  
1 5 10 15

Lys Val Asp Asp Leu Leu Glu Ser Tyr Met Gly Ile Arg Asp Thr Glu  
20 25 30

Leu Ala Ala Thr Met Val Glu Leu Gly Lys Asp Lys Arg Asn Pro Asp  
35 40 45

Glu Leu  
50

<210> 538  
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<212> PRT  
<213> Homo sapiens

<400> 538

Leu Ala Ala Pro Gln Gly Gly Ser Pro Thr Lys Leu Gln Arg Gly Gly  
1 5 10 15

Ser Ala Pro Glu  
20

<210> 539  
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<212> PRT  
<213> Homo sapiens

<400> 539

Ala Thr Ala Thr Leu Gln Arg Pro Gly Ser Leu Ala Ala Gly Ser Arg  
1 5 10 15

Ala Ser Tyr Ser  
20

<210> 540  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 540

Arg Ser Leu Ser Gln Ser Gln Gly Val Pro Leu Pro Pro Ala His Thr  
1 5 10 15

Gly Thr Tyr Arg  
20



<210> 541  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 541

Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala Ser Asn Tyr  
1 5 10 15

Ala Asp Pro Tyr  
20

<210> 542  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 542

Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly Gly Ile Gln Leu  
1 5 10 15

Leu Val Asp Leu  
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<210> 543  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 543

Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln  
1 5 10 15

Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly  
20 25 30

Trp Glu Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser  
35 40 45

Ser Gln  
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<210> 544  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 544

Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp Gly Leu  
1 5 10 15

Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser Ser Glu  
 20 25 30

Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg Asn Leu  
 35 40 45

Ser Tyr  
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<210> 545  
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 <212> PRT  
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<400> 545

Lys Lys Ala Pro Pro Leu Val Glu Asn Glu Glu Ala Glu Pro Gly Arg  
 1 5 10 15

Gly Gly Leu Gly  
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<210> 546  
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 <212> PRT  
 <213> Homo sapiens

<400> 546

Gly Gly Gly Gly Ser Gly Gly Pro Gln Met Gly Leu Pro Pro Pro Pro  
 1 5 10 15

Pro Ala Leu Arg  
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<210> 547  
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 <212> PRT  
 <213> Homo sapiens

<400> 547

His Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys Glu  
 1 5 10 15

Leu Tyr Gly Lys  
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<210> 548  
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 <212> PRT  
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<400> 548

Thr Leu Asn Thr His Lys Val Asp Met Asp Lys Leu Leu Gly Gly Gln  
1 5 10 15

Ile Gly Leu Glu  
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<210> 549

<211> 20

<212> PRT

<213> Homo sapiens

<400> 549

Ser Glu Asp Ala Leu Gly Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr  
1 5 10 15

Ala Phe Ile Lys  
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<210> 550

<211> 50

<212> PRT

<213> Homo sapiens

<400> 550

Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val Ala Arg Leu  
1 5 10 15

Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys Leu Thr Glu  
20 25 30

Pro Arg Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg  
35 40 45

Pro Gly  
50

<210> 551

<211> 50

<212> PRT

<213> Homo sapiens

<400> 551

Arg Leu Arg Ser Arg Gly Pro Ala Thr Val Glu Asp Leu Pro Ser Ala  
1 5 10 15

Phe Glu Glu Lys Ala Ile Glu Lys Val Asp Asp Leu Leu Glu Ser Tyr  
20 25 30

Met Gly Ile Arg Asp Thr Glu Leu Ala Ala Thr Met Val Glu Leu Gly

35

40

45

Lys Asp  
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<210> 552  
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<212> PRT  
<213> Homo sapiens  
<400> 552

Ala Ile Leu Tyr Ser Lys Phe Lys Pro Gln Lys Met Arg Glu His Leu  
1 5 10 15

Glu Leu Phe Trp  
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<210> 553  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 553

Ala Ala Glu Gln Ala His Leu Trp Ala Glu Leu Val Phe Leu Tyr Asp  
1 5 10 15

Lys Tyr Glu Glu  
20

<210> 554  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 554

His Pro Thr Asp Ala Trp Lys Glu Gly Gln Phe Lys Asp Ile Ile Thr  
1 5 10 15

Lys Val Ala Asn  
20

<210> 555  
<211> 20  
<212> PRT  
<213> Homo sapiens  
<400> 555

Phe Lys Pro Leu Leu Leu Asn Asp Leu Leu Met Val Leu Ser Pro Arg  
1 5 10 15

Leu Asp His Thr

20

<210> 556  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 556

Pro Tyr Leu Arg Ser Val Gln Asn His Asn Asn Lys Ser Val Asn Glu  
1 5 10 15

Ser Leu Asn Asn  
20

<210> 557  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 557

Glu Lys Arg Glu Cys Phe Gly Ala Cys Leu Phe Thr Cys Tyr Asp Leu  
1 5 10 15

Leu Arg Pro Asp Val Val Leu Glu Thr Ala Trp Arg His Asn Ile Met  
20 25 30

Asp Phe Ala Met Pro Tyr Phe Ile Gln Val Met Lys Glu Tyr Leu Thr  
35 40 45

Lys Val  
50

<210> 558  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 558

Lys Glu Glu Glu Gln Ala Thr Glu Thr Gln Pro Ile Val Tyr Gly Gln  
1 5 10 15

Pro Gln Leu Met Leu Thr Ala Gly Pro Ser Val Ala Val Pro Pro Gln  
20 25 30

Ala Pro Phe Gly Tyr Gly Tyr Thr Ala Pro Pro Tyr Gly Gln Pro Gln  
35 40 45

Pro Gly  
50

<210> 559  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 559

Gly Ser Arg Ser Arg Lys Val Lys Glu Gln Tyr Gln Asp Val Pro Met  
1 5 10 15

Pro Glu Glu Lys  
20

<210> 560  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 560

Ser Asn Pro Lys Gly Val Glu Trp Leu Trp His Ser Ile Val Ile Arg  
1 5 10 15

Met Tyr Leu Ser  
20

<210> 561  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 561

Leu Ile Ala Lys Ser Val Arg Asn Tyr Thr Gln Glu Ala Ser Leu Gly  
1 5 10 15

Ala Leu Gln Asn  
20

<210> 562  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 562

Leu Thr Ala Gly Ser Gly Pro Met Pro Thr Ser Val Ala Gln Thr Val  
1 5 10 15

Val Gln Lys Glu  
20

<210> 563  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 563

Ser Gly Leu Gln His Thr Arg Lys Met Leu His Val Gly Asp Pro Ser  
1 5 10 15

Val Lys Lys Thr  
20

<210> 564

<211> 50

<212> PRT

<213> Homo sapiens

<400> 564

Ala Ile Ser Leu Leu Arg Asn Leu Ser Arg Asn Leu Ser Leu Gln Asn  
1 5 10 15

Glu Ile Ala Lys Glu Thr Leu Pro Asp Leu Val Ser Ile Ile Pro Asp  
20 25 30

Thr Val Pro Ser Thr Asp Leu Leu Ile Glu Thr Thr Ala Ser Ala Cys  
35 40 45

Tyr Thr  
50

<210> 565

<211> 50

<212> PRT

<213> Homo sapiens

<400> 565

Met Pro Glu Glu Lys Ser Asn Pro Lys Gly Val Glu Trp Leu Trp His  
1 5 10 15

Ser Ile Val Ile Arg Met Tyr Leu Ser Leu Ile Ala Lys Ser Val Arg  
20 25 30

Asn Tyr Thr Gln Glu Ala Ser Leu Gly Ala Leu Gln Asn Leu Thr Ala  
35 40 45

Gly Ser  
50

<210> 566

<211> 20

<212> PRT

<213> Homo sapiens

<400> 566

Ala Leu Lys Ala Ala Phe Asp Val Asn Asn Lys Asp Val Ser Val Met  
 1 5 10 15

Met Ser Glu Met  
 20

<210> 567  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 567

Asp Val Asn Ala Ile Ala Gly Thr Leu Lys Leu Tyr Phe Arg Glu Leu  
 1 5 10 15

Pro Glu Pro Leu  
 20

<210> 568  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 568

Phe Thr Asp Glu Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser  
 1 5 10 15

Asp Pro Val Ala  
 20

<210> 569  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 569

Lys Glu Ser Cys Met Leu Asn Leu Leu Leu Ser Leu Pro Glu Ala Asn  
 1 5 10 15

Leu Leu Thr Phe  
 20

<210> 570  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 570

Leu Phe Leu Leu Asp His Leu Lys Arg Val Ala Glu Lys Glu Ala Val  
 1 5 10 15



Asn Lys Met Ser  
20

<210> 571  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 571

Thr Phe Leu Phe Leu Leu Asp His Leu Lys Arg Val Ala Glu Lys Glu  
1 5 10 15

Ala Val Asn Lys Met Ser Leu His Asn Leu Ala Thr Val Phe Gly Pro  
20 25 30

Thr Leu Leu Arg Pro Ser Glu Lys Glu Ser Lys Leu Pro Ala Asn Pro  
35 40 45

Ser Gln  
50

<210> 572  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 572

Ala Leu Lys Ala Ala Phe Asp Val Asn Asn Lys Asp Val Ser Val Met  
1 5 10 15

Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr Leu Lys Leu Tyr  
20 25 30

Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu Phe Tyr Pro Asn  
35 40 45

Phe Ala  
50

<210> 573  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 573

Ser Glu Leu Val Gln Lys Ala Lys Leu Ala Glu Gln Ala Glu Arg Tyr  
1 5 10 15

Asp Asp Met Ala  
20

<210> 574  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 574

His Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr Lys  
1 5 10 15

Asn Val Val Gly  
20

<210> 575  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 575

Trp Arg Val Ile Ser Ser Ile Glu Gln Lys Thr Glu Arg Asn Glu Lys  
1 5 10 15

Lys Gln Gln Met  
20

<210> 576  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 576

Ile Glu Ala Glu Leu Gln Asp Ile Cys Asn Asp Val Leu Glu Leu Leu  
1 5 10 15

Asp Lys Tyr Leu  
20

<210> 577  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 577

Gly Leu Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser  
1 5 10 15

Pro Glu Lys Ala  
20

<210> 578  
<211> 50  
<212> PRT

<213> Homo sapiens

<400> 578

Leu Lys Met Lys Gly Asp Tyr Phe Arg Tyr Leu Ser Glu Val Ala Ser  
1 5 10 15

Gly Asp Asn Lys Gln Thr Thr Val Ser Asn Ser Gln Gln Ala Tyr Gln  
20 25 30

Glu Ala Phe Glu Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro Ile  
35 40 45

Arg Leu  
50

<210> 579

<211> 50

<212> PRT

<213> Homo sapiens

<400> 579

Cys Ser Leu Ala Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp  
1 5 10 15

Thr Leu Asn Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu  
20 25 30

Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Glu Asn Gln Gly Asp Glu  
35 40 45

Gly Asp  
50

<210> 580

<211> 20

<212> PRT

<213> Homo sapiens

<400> 580

Met Asp Lys Asn Glu Leu Val Gln Lys Ala Lys Leu Ala Glu Gln Ala  
1 5 10 15

Glu Arg Tyr Asp  
20

<210> 581

<211> 20

<212> PRT

<213> Homo sapiens

<400> 581

Asp Met Ala Ala Cys Met Lys Ser Val Thr Glu Gln Gly Ala Glu Leu  
1 5 10 15

Ser Asn Glu Glu  
20

<210> 582  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 582

Arg Asn Leu Leu Ser Val Ala Tyr Lys Asn Val Val Gly Ala Arg Arg  
1 5 10 15

Ser Ser Trp Arg  
20

<210> 583  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 583

Ile Glu Gln Lys Thr Glu Gly Ala Glu Lys Lys Gln Gln Met Ala Arg  
1 5 10 15

Glu Tyr Arg Glu  
20

<210> 584  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 584

Cys Asn Asp Val Leu Ser Leu Leu Glu Lys Phe Leu Ile Pro Asn Ala  
1 5 10 15

Ser Gln Ala Glu  
20

<210> 585  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 585

Met Lys Gly Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Ala Gly Asp  
1 5 10 15

Asp Lys Lys Gly Ile Val Asp Gln Ser Gln Gln Ala Tyr Gln Glu Ala  
20 25 30

Phe Glu Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro Ile Arg Leu  
35 40 45

Gly Leu  
50

<210> 586  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 586

Ser Pro Glu Lys Ala Cys Ser Leu Ala Lys Thr Ala Phe Asp Glu Ala  
1 5 10 15

Ile Ala Glu Leu Asp Thr Leu Ser Glu Glu Ser Tyr Lys Asp Ser Thr  
20 25 30

Leu Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp  
35 40 45

Thr Gln  
50

<210> 587  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 587

Pro Phe Phe Trp Leu Glu Asn Lys Asp Val Ile Gly Val Leu Glu Lys  
1 5 10 15

Gly Asp Arg Leu  
20

<210> 588  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 588

Pro Lys Pro Asp Leu Cys Pro Pro Val Leu Tyr Thr Leu Met Thr Arg  
1 5 10 15

Cys Trp Asp Tyr  
20

<210> 589  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 589

Cys Ser Leu Ser Asp Val Tyr Gln Met Glu Lys Asp Ile Ala Met Glu  
1 5 10 15

Gln Glu Arg Asn  
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<400> 590

Arg Pro Pro Pro Gln Thr Asn Leu Leu Ala Pro Lys Leu Gln Phe Gln  
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Val Pro Glu Gly  
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<400> 591

Gln Met Val Glu Asp Tyr Gln Trp Leu Arg Gln Glu Glu Lys Ser Leu  
1 5 10 15

Asp Pro Met Val  
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<400> 592

Pro Glu Lys Glu Val Gly Tyr Leu Glu Phe Thr Gly Pro Pro Gln Lys  
1 5 10 15

Pro Pro Arg Leu Gly Ala Gln Ser Ile Gln Pro Thr Ala Asn Leu Asp  
20 25 30

Arg Thr Asp Asp Leu Val Tyr Leu Asn Val Met Glu Leu Val Arg Ala  
35 40 45

Val Leu  
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<210> 593  
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<400> 593

Pro Glu Gly Tyr Val Val Val Val Lys Asn Val Gly Leu Thr Leu Arg  
1 5 10 15

Lys Leu Ile Gly Ser Val Asp Asp Leu Leu Pro Ser Leu Pro Ser Ser  
20 25 30

Ser Arg Thr Glu Ile Glu Gly Thr Gln Lys Leu Leu Asn Lys Asp Leu  
35 40 45

Ala Glu  
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Leu Phe Thr Pro Leu Asn Met Val Val Gln Ala Thr Gly Gly Pro Glu  
1 5 10 15

Leu Ala Ser Ser  
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<400> 595

Met Gly Ala Thr Met Glu Gln Asp Leu Tyr Gln Leu Ala Glu Ser Val  
1 5 10 15

Ala Asn Val Ala  
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<400> 596

Asn Ile Tyr Thr Arg Gly Ser His Leu Asp Gln Gly Glu Ala Ala Val  
1 5 10 15

Ala Phe Lys Pro  
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<400> 597

Glu Ile Leu Asp Asp Arg Lys Gln Trp Trp Lys Val Arg Asn Ala Ser  
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Gly Asp Ser Gly  
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Pro Tyr Thr His Thr Ile Gln Lys Gln Arg Met Glu Tyr Gly Pro Arg  
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Pro Ala Asp Thr  
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<213> Homo sapiens

<400> 599

Ser Ser Asp Ser Gly Gly Ser Ile Val Arg Asp Ser Gln Arg His Lys  
1 5 10 15

Gln Leu Pro Val Asp Arg Arg Lys Ser Gln Met Glu Glu Val Gln Asp  
20 25 30

Glu Leu Ile His Arg Leu Thr Ile Gly Arg Ser Ala Ala Gln Lys Lys  
35 40 45

Phe His  
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Ile Thr Tyr Asp Ser Thr Pro Glu Asp Val Lys Thr Trp Leu Gln Ser  
1 5 10 15

Lys Gly Phe Asn Pro Val Thr Val Asn Ser Leu Gly Val Leu Asn Gly  
20 25 30

Ala Gln Leu Phe Ser Leu Asn Lys Asp Glu Leu Arg Thr Val Cys Pro  
35 40 45

Glu Gly  
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<400> 601

Leu Leu Met Glu Lys Ile Arg Asp Pro Phe Ile His Glu Ile Ser Lys  
1 5 10 15

Ile Ala Met Gly  
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<400> 602

Met Arg Ser Ala Ser Gln Phe Thr Arg Asp Phe Ile Arg Asp Ser Gly  
1 5 10 15

Val Val Ser Leu  
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<210> 603  
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<400> 603

Ile Glu Thr Leu Leu Asn Tyr Pro Ser Ser Arg Val Arg Thr Ser Phe  
1 5 10 15

Leu Glu Asn Met

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Ile Arg Met Ala Pro Pro Tyr Pro Asn Leu Asn Ile Ile Gln Thr Tyr  
1 5 10 15

Ile Cys Lys Val  
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Cys Glu Glu Thr Leu Ala Tyr Ser Val Asp Ser Pro Glu Gln Leu Ser  
1 5 10 15

Gly Ile Arg Met  
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<400> 606

Leu Thr Thr Thr Thr Asp Tyr His Thr Leu Val Ala Asn Tyr Met Ser  
1 5 10 15

Gly Phe Leu Ser Leu Leu Ala Thr Gly Asn Ala Lys Thr Arg Phe His  
20 25 30

Val Leu Lys Met Leu Leu Asn Leu Ser Glu Asn Leu Phe Met Thr Lys  
35 40 45

Glu Leu  
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<210> 607  
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<213> Homo sapiens

<400> 607

Phe Ile Gly Leu Phe Asn Arg Glu Glu Thr Asn Asp Asn Ile Gln Ile  
Page 138

1 5 10 15

Val Leu Ala Ile Phe Glu Asn Ile Gly Asn Asn Ile Lys Lys Glu Thr  
20 25 30

Val Phe Ser Asp Asp Asp Phe Asn Ile Glu Pro Leu Ile Ser Ala Phe  
35 40 45

His Lys  
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Ser Pro Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr Leu  
1 5 10 15

Ala Arg Ser Pro  
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Leu Arg Asn Leu Val Tyr Gly Lys Ala Asn Asp Asp Asn Lys Ile Ala  
1 5 10 15

Leu Lys Asn Cys  
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<213> Homo sapiens

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Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln Asp Ala  
1 5 10 15

Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly Trp Glu  
20 25 30

Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser Ser Gln  
35 40 45

Val Leu  
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<400> 614

Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp  
1 5 10 15

Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser  
20 25 30

Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg  
35 40 45

Asn Leu  
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Pro Ile Asn Ile Val Val Ser Ser Ala Gly Leu Ser Pro Ile Arg Val  
1 5 10 15

Thr Ser Pro Pro  
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<400> 616

Val His Ala Ser Glu Gln Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala  
1 5 10 15

Thr Ala Thr Leu  
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<400> 617

Ser Pro Gly Val Asp Ser Val Pro Leu Gln Arg Thr Gly Ser Gln His  
1 5 10 15

Gly Pro Gln Asn  
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<210> 618  
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<400> 618

Ala Ala Gly Pro Ala Ser Asn Tyr Ala Asp Pro Tyr Arg Gln Leu Gln  
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Tyr Cys Pro Ser  
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<400> 619

Ile Gln Met Leu Gln His Gln Phe Pro Ser Val Gln Ser Asn Ala Ala  
1 5 10 15

Ala Tyr Leu Gln  
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<210> 620  
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<213> Homo sapiens

<400> 620

Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln Asp Ala Leu Ala  
1 5 10 15

Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly Trp Glu Asn Ser  
20 25 30

Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser Ser Gln Val Leu  
35 40 45

Arg Asn  
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<210> 621  
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<400> 621

Asn Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys  
1 5 10 15

Asp Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly  
20 25 30

Ser Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu  
35 40 45

Arg Asn  
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Asn Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys  
1 5 10 15

Asp Gly Leu Thr  
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Gln Gly Gln His Met Gly Thr Asp Glu Leu Asp Gly Leu Leu Cys Gly  
1 5 10 15

Glu Ala Asn Gly  
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<400> 624

Leu Trp His Pro Ser Ile Val Lys Pro Tyr Leu Thr Leu Leu Ser Glu  
1 5 10 15

Cys Ser Asn Pro  
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<400> 625

Leu Arg Ile Asp Asn Asp Arg Val Ala Cys Ala Val Ala Thr Ala Leu  
1 5 10 15

Arg Asn Met Ala  
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<400> 626

Thr Ala Val Cys Cys Thr Leu His Glu Val Ile Thr Lys Asn Met Glu  
1 5 10 15

Asn Ala Lys Ala  
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<400> 627

Ile Ser Leu Lys Glu Arg Lys Thr Asp Tyr Glu Cys Thr Gly Ser Asn  
1 5 10 15

Ala Thr Tyr His Gly Ala Lys Gly Glu His Thr Ser Arg Lys Asp Ala  
20 25 30

Met Thr Ala Gln Asn Thr Gly Ile Ser Thr Leu Tyr Arg Asn Ser Tyr  
35 40 45

Gly Ala  
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<213> Homo sapiens

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Ser Ala Gln Pro Val Pro Gln Glu Pro Ser Arg Lys Asp Tyr Glu Thr  
1 5 10 15

Tyr Gln Pro Phe Gln Asn Ser Thr Arg Asn Tyr Asp Glu Ser Phe Phe  
20 25 30

Glu Asp Gln Val His His Arg Pro Pro Ala Ser Glu Tyr Thr Met His  
35 40 45

Leu Gly  
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Met Ala Leu Leu Thr Ala Ala Ala Arg Leu Leu Gly Thr Lys Asn Ala  
1 5 10 15

Ser Cys Leu Val  
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<400> 630

Leu Ala Ala Arg His Ala Ser Ala Ser Ser Thr Asn Leu Lys Asp Ile  
1 5 10 15

Leu Ala Asp Leu  
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<210> 631  
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<400> 631

Ile Pro Lys Glu Gln Ala Arg Ile Lys Thr Phe Arg Gln Gln His Gly  
1 5 10 15

Lys Thr Val Val  
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<400> 632

Gly Gln Ile Thr Val Asp Met Met Tyr Gly Gly Met Arg Gly Met Lys  
1 5 10 15

Gly Leu Val Tyr  
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<210> 633  
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<400> 633

Glu Thr Ser Val Leu Asp Pro Asp Glu Gly Ile Arg Phe Arg Gly Phe  
1 5 10 15

Ser Ile Pro Glu  
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<400> 634

Gly Met Lys Gly Leu Val Tyr Glu Thr Ser Val Leu Asp Pro Asp Glu  
1 5 10 15

Gly Ile Arg Phe Arg Gly Phe Ser Ile Pro Glu Cys Gln Lys Leu Leu  
20 25 30

Pro Lys Ala Lys Gly Gly Glu Glu Pro Leu Pro Glu Gly Leu Phe Trp  
35 40 45

Leu Leu  
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<400> 635

Met Ala Leu Leu Thr Ala Ala Ala Arg Leu Leu Gly Thr Lys Asn Ala  
1 5 10 15

Ser Cys Leu Val Leu Ala Ala Arg His Ala Ser Ala Ser Ser Thr Asn  
20 25 30

Leu Lys Asp Ile Leu Ala Asp Leu Ile Pro Lys Glu Gln Ala Arg Ile  
35 40 45

Lys Thr  
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Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Val Tyr Leu Glu  
1 5 10 15

Gly Thr Leu Leu  
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Lys Pro Asn Met Val Thr Pro Gly His Ala Cys Pro Ile Lys Tyr Thr  
1 5 10 15

Pro Glu Glu Ile  
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<212> PRT  
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<400> 638

Ala Met Ala Thr Val Thr Ala Leu Arg Arg Thr Val Pro Pro Ala Val  
1 5 10 15

Pro Gly Val Thr  
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Phe Leu Ser Gly Gly Gln Ser Glu Glu Glu Ala Ser Phe Asn Leu Asn  
1 5 10 15

Ala Ile Asn Arg  
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Cys Pro Leu Pro Arg Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg Ala  
1 5 10 15

Leu Gln Ala Ser  
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<400> 641

Ala Leu Asn Ala Trp Arg Gly Gln Arg Asp Asn Ala Gly Ala Ala Thr  
1 5 10 15

Glu Glu Phe Ile Lys Arg Ala Glu Val Asn Gly Leu Ala Ala Gln Gly  
20 25 30

Lys Tyr Glu Gly Ser Gly Glu Asp Gly Gly Ala Ala Ala Gln Ser Leu  
35 40 45

Tyr Ile  
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<400> 642

Ile Lys Tyr Thr Pro Glu Glu Ile Ala Met Ala Thr Val Thr Ala Leu  
1 5 10 15

Arg Arg Thr Val Pro Pro Ala Val Pro Gly Val Thr Phe Leu Ser Gly  
20 25 30

Gly Gln Ser Glu Glu Glu Ala Ser Phe Asn Leu Asn Ala Ile Asn Arg  
35 40 45

Cys Pro  
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<400> 643

Val Asp Asn Pro Gly His Pro Tyr Ile Met Thr Val Gly Cys Val Ala  
1 5 10 15

Gly Asp Glu Glu  
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<210> 644  
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<400> 644

Leu Asp Pro Asn Tyr Val Leu Ser Ser Arg Val Arg Thr Gly Arg Ser  
1 5 10 15

Ile Arg Gly Phe  
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<213> Homo sapiens

<400> 645

Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp His Phe Leu Phe Asp Lys  
1 5 10 15

Pro Val Ser Pro  
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<210> 646

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<212> PRT

<213> Homo sapiens

<400> 646

Glu Asp Arg His Gly Gly Tyr Lys Pro Ser Asp Glu His Lys Thr Asp  
1 5 10 15

Leu Asn Pro Asp  
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<210> 647

<211> 20

<212> PRT

<213> Homo sapiens

<400> 647

Ala Arg Gly Ile Trp His Asn Asp Asn Lys Thr Phe Leu Val Trp Val  
1 5 10 15

Asn Glu Glu Asp  
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<212> PRT

<213> Homo sapiens

<400> 648

Thr Arg Phe Cys Thr Gly Leu Thr Gln Ile Glu Thr Leu Phe Lys Ser  
1 5 10 15

Lys Asp Tyr Glu Phe Met Trp Asn Pro His Leu Gly Tyr Ile Leu Thr  
20 25 30

Cys Pro Ser Asn Leu Gly Thr Gly Leu Arg Ala Gly Val His Ile Lys  
35 40 45

Leu Pro  
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<210> 649  
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<213> Homo sapiens

<400> 649

Lys His Glu Lys Phe Ser Glu Val Leu Lys Arg Leu Arg Leu Gln Lys  
1 5 10 15

Arg Gly Thr Gly Gly Val Asp Thr Ala Ala Val Gly Gly Val Phe Asp  
20 25 30

Val Ser Asn Ala Asp Arg Leu Gly Phe Ser Glu Val Glu Leu Val Gln  
35 40 45

Met Val  
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<400> 650

Met Asp Cys Cys Thr Glu Asn Ala Cys Ser Lys Pro Asp Asp Asp Ile  
1 5 10 15

Leu Asp Ile Pro  
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<212> PRT  
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<400> 651

Leu Asp Asp Pro Gly Ala Asn Ala Ala Ala Lys Ile Gln Ala Ser  
1 5 10 15

Phe Arg Gly His

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<210> 652  
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<400> 652

Met Ala Arg Lys Lys Ile Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro  
1 5 10 15

Gly Pro Gly Gly  
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<213> Homo sapiens

<400> 653

Ala Lys Ile Gln Ala Ser Phe Arg Gly His Met Ala Arg Lys Lys Ile  
1 5 10 15

Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro Gly Pro Gly Gly Met Ala  
20 25 30

Arg Lys Lys Ile Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro Gly Pro  
35 40 45

Gly Gly  
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<210> 654  
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Met Ala Ser Ala Thr Asp Ser Arg Tyr Gly Gln Lys Glu Ser Ser Asp  
1 5 10 15

Gln Asn Phe Asp  
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<210> 655  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 655

Tyr Met Phe Lys Ile Leu Ile Ile Gly Asn Ser Ser Val Gly Lys Thr  
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1 5 10 15

Ser Phe Leu Phe  
20

<210> 656  
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<400> 656

Arg Tyr Ala Asp Asp Ser Phe Thr Pro Ala Phe Val Ser Thr Val Gly  
1 5 10 15

Ile Asp Phe Lys  
20

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<213> Homo sapiens  
<400> 657

Val Lys Thr Ile Tyr Arg Asn Asp Lys Arg Ile Lys Leu Gln Ile Trp  
1 5 10 15

Asp Thr Ala Gly  
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<210> 658  
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<212> PRT  
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<400> 658

Gln Glu Arg Tyr Arg Thr Ile Thr Thr Ala Tyr Tyr Arg Gly Ala Met  
1 5 10 15

Gly Phe Ile Leu  
20

<210> 659  
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<213> Homo sapiens  
<400> 659

Val Lys Thr Ile Tyr Arg Asn Asp Lys Arg Ile Lys Leu Gln Ile Trp  
1 5 10 15

Asp Thr Ala Gly Gln Glu Arg Tyr Arg Thr Ile Thr Thr Ala Tyr Tyr  
Page 152



20 25 30  
 Arg Gly Ala Met Gly Phe Ile Leu Met Tyr Asp Ile Thr Asn Glu Glu  
           35                          40                          45

Ser Phe  
       50

<210> 660  
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<400> 660

Thr Asp Ser Arg Tyr Gly Gln Lys Glu Ser Ser Asp Gln Asn Phe Asp  
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Tyr Met Phe Lys Ile Leu Ile Ile Gly Asn Ser Ser Val Gly Lys Thr  
           20                          25                          30

Ser Phe Leu Phe Arg Tyr Ala Asp Asp Ser Phe Thr Pro Ala Phe Val  
           35                          40                          45

Ser Thr  
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His Ala Pro Ala Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala  
   1                          5                          10                          15

Val Val Asn Gly  
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Glu Phe His Asp Val Asn Cys Glu Val Val Ala Val Ser Val Asp Ser  
   1                          5                          10                          15

His Phe Ser His  
           20

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<213> Homo sapiens

<400> 663

Leu Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro Asn Gly Val Ile Lys  
1 5 10 15

His Leu Ser Val  
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<210> 664  
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Ser Pro Thr Ile Lys Pro Ser Pro Ala Ala Ser Lys Glu Tyr Phe Gln  
1 5 10 15

Lys Val Asn Gln  
20

<210> 665  
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<213> Homo sapiens

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Arg Ala Ser Val Ala Arg His Val Ser Ala Ile Pro Trp Gly Ile Ser  
1 5 10 15

Ala Thr Ala Ala Leu Arg Pro Ala Ala Cys Gly Arg Thr Ser Leu Thr  
20 25 30

Asn Leu Leu Cys Ser Gly Ser Ser Gln Ala Lys Leu Phe Ser Thr Ser  
35 40 45

Ser Ser  
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<210> 666  
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<400> 666

Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp  
1 5 10 15

Ile Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Ala  
20 25 30

Leu Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu  
35 40 45

Leu Glu  
50

<210> 667  
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<400> 667

Met Ala Met Ser Ser Gly Gly Ser Gly Gly Gly Val Pro Glu Gln Glu  
1 5 10 15

Asp Ser Val Leu  
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<210> 668  
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<212> PRT  
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<400> 668

Lys Pro Lys Thr Thr Pro Lys Arg Lys Pro Ala Lys Lys Asn Lys Ser  
1 5 10 15

Gln Lys Lys Asn  
20

<210> 669  
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<212> PRT  
<213> Homo sapiens

<400> 669

Glu Thr Cys Val Val Val Tyr Thr Gly Tyr Gly Asn Arg Glu Glu Gln  
1 5 10 15

Asn Leu Ser Asp  
20

<210> 670  
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<213> Homo sapiens

<400> 670

Asp Asn Ile Lys Pro Lys Ser Ala Pro Trp Asn Ser Phe Leu Pro Pro  
 1 5 10 15

Pro Pro Pro Met  
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<210> 671  
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 <212> PRT  
 <213> Homo sapiens

<400> 671

Pro Ile Ile Pro Pro Pro Pro Ile Cys Pro Asp Ser Leu Asp Asp  
 1 5 10 15

Ala Asp Ala Leu  
 20

<210> 672  
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 <213> Homo sapiens

<400> 672

Tyr Gly Asn Arg Glu Glu Gln Asn Leu Ser Asp Leu Leu Ser Pro Ile  
 1 5 10 15

Cys Glu Val Ala Asn Asn Ile Glu Gln Asn Ala Gln Glu Asn Glu Asn  
 20 25 30

Glu Ser Gln Val Ser Thr Asp Glu Ser Glu Asn Ser Arg Ser Pro Gly  
 35 40 45

Asn Lys  
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<400> 673

Lys Pro Lys Thr Thr Pro Lys Arg Lys Pro Ala Lys Lys Asn Lys Ser  
 1 5 10 15

Gln Lys Lys Asn Thr Ala Ala Ser Leu Gln Gln Trp Lys Val Gly Asp  
 20 25 30

Lys Cys Ser Ala Ile Trp Ser Glu Asp Gly Cys Ile Tyr Pro Ala Thr  
 35 40 45

Ile Ala  
50

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<400> 674

Gly Glu Thr Ser Tyr Ile Arg Val Tyr Pro Glu Arg Ser Thr Ser Tyr  
1 5 10 15

Gly Tyr Ser Arg  
20

<210> 675  
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<212> PRT  
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<400> 675

Ser Arg Ser Gly Ser Arg Gly Arg Asp Ser Pro Tyr Gln Ser Arg Gly  
1 5 10 15

Ser Pro His Tyr  
20

<210> 676  
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<400> 676

Arg Asp Ser Pro Tyr Gln Ser Arg Gly Ser Pro His Tyr Phe Ser Pro  
1 5 10 15

Phe Arg Pro Tyr  
20

<210> 677  
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<212> PRT  
<213> Homo sapiens

<400> 677

Met Leu Pro Gly Leu Ala Leu Leu Leu Leu Ala Ala Trp Thr Ala Arg  
1 5 10 15

Ala Leu Glu Val  
20

<210> 678  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 678

Thr Cys Ile Asp Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val  
1 5 10 15

Tyr Pro Glu Leu  
20

<210> 679  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 679

Glu Phe Val Ser Asp Ala Leu Leu Val Pro Asp Lys Cys Lys Phe Leu  
1 5 10 15

His Gln Glu Arg  
20

<210> 680  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 680

Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu Ser Asp Asn Val  
1 5 10 15

Asp Ser Ala Asp  
20

<210> 681  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 681

Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val Trp Trp  
1 5 10 15

Gly Gly Ala Asp  
20

<210> 682  
<211> 50  
<212> PRT

<213> Homo sapiens

<400> 682

Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu Gln Ile Thr Asn Val Val  
1 5 10 15

Glu Ala Asn Gln Pro Val Thr Ile Gln Asn Trp Cys Lys Arg Gly Arg  
20 25 30

Lys Gln Cys Lys Thr His Pro His Phe Val Ile Pro Tyr Arg Cys Leu  
35 40 45

Val Gly  
50

<210> 683

<211> 50

<212> PRT

<213> Homo sapiens

<400> 683

Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys Glu  
1 5 10 15

Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu Lys  
20 25 30

Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile Asp  
35 40 45

Lys Phe  
50

<210> 684

<211> 20

<212> PRT

<213> Homo sapiens

<400> 684

Met Ala Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys  
1 5 10 15

Lys Thr Gln Glu  
20

<210> 685

<211> 20

<212> PRT

<213> Homo sapiens

<400> 685

Ile Ser Lys Gly Lys Arg Lys Glu Asp Ser Leu Thr Ala Ser Gln Arg  
1 5 10 15

Lys Gln Arg Asp  
20

<210> 686  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 686

Ser Glu Ile Met Gln Glu Lys Gln Lys Ala Ala Asn Glu Lys Lys Ser  
1 5 10 15

Met Gln Thr Arg  
20

<210> 687  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 687

Met Ala Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys  
1 5 10 15

Lys Thr Gln Glu Ile Ser Lys Gly Lys Arg Lys Glu Asp Ser Leu Thr  
20 25 30

Ala Ser Gln Arg Lys Gln Arg Asp Ser Glu Ile Met Gln Glu Lys Gln  
35 40 45

Lys Ala  
50

<210> 688  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 688

Lys Asn Met Lys Lys Thr Gln Glu Ile Ser Lys Gly Lys Arg Lys Glu  
1 5 10 15

Asp Ser Leu Thr Ala Ser Gln Arg Lys Gln Arg Asp Ser Glu Ile Met  
20 25 30

Gln Glu Lys Gln Lys Ala Ala Asn Glu Lys Lys Ser Met Gln Thr Arg  
35 40 45



Glu Lys  
50

<210> 689  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 689

Pro Gln Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser  
1 5 10 15

Val Ser Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr  
20 25 30

Val Pro Thr Val Cys Asn Gly Arg Glu Val Leu Asp Ser Thr Thr Ser  
35 40 45

Ser Leu  
50

<210> 690  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 690

Gln Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val  
1 5 10 15

Ser Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val  
20 25 30

Pro Thr Val Cys Asn Gly Arg Glu  
35 40

<210> 691  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 691

Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser  
1 5 10 15

Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val Pro  
20 25 30

Thr Val Cys

35

<210> 692  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 692

Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly  
1 5 10 15

Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val  
20 25 30

<210> 693  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 693

Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly  
1 5 10 15

Thr Ala Thr Thr Tyr Ser Gln Ser Ser  
20 25

<210> 694  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 694

Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly Thr Ala Thr  
1 5 10 15

Thr Tyr Ser Gln  
20

<210> 695  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 695

His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly Thr Ala Thr Thr  
1 5 10 15

Tyr Ser